PHOTOGRAPHIC ACCESSORIES

Nikon

At the heart of the image

The ideal lineup for seamless

From the world's finest cameras and lenses to an immense range of specialized equipment and accessories, Nikon boasts the world's most comprehensive photography system. This brochure covers the most important Nikon photographic accessories — tools that work seamlessly with your Nikon camera for optimum performance.

Speedlights

Pp.4-13

When you want the finest flash results for your Nikon SLR, choose one of the many Nikon Speedlights.

Nikon Creative Lighting System
SB-800/SB-600/SB-27/SB-22s/SB-23/SB-29s
Camera/Speedlight Compatibility
TTL Flash System/Flash Accessories

Battery Packs and Motor Drives

Pp.18-19

Beef up your power with a boost from one of these battery packs or motor drives.

Battery Packs
(for F6, F5, F100, F90X, F80, F75, F65, D1 series, D2X/H, D100)
External Power Source
Motor Drives (for FM3A, FM2)

Remote Control & Data Communication Accessories

Pp.20-21

Explore more creative shooting with these remote and data communication accessories.

Two-Pin Remote Accessories
Ten-Pin Remote Accessories
Cable Release AR-3
Modulite Remote Control Set
Data Communication Accessories

Software

Pp.14-17

Postproduction imaging tool that's a key element to any digital imaging workflow.

PictureProject
Nikon Capture 4

Viewing Accessories

Pp.22-23

Customize your shooting views with one of these superior Nikon accessories.

Interchangeable Focusing Screens
Interchangeable Viewfinders
Viewing Attachment

performance with your Nikon.

Each accessory delivers the same exacting standard of quality that has made Nikon synonymous with professional photography. Nikon accessories are designed to withstand the most demanding photographic conditions imaginable to assure a lifetime of excellent service for everyone from beginners to professionals.

Close-Up Accessories

P.24

These can be indispensable when you need to reveal precise details with close-up photography.

Bellows Focusing Attachment and Accessories
Close-up Attachment Lenses
Auto Extension Rings

Filters

Pp.26-28

Absolute necessities for many types of photography. This comprehensive lineup covers all the bases.

Filters for Color and B&W Photography
Filters for B&W Photography
Filters for Color Photography

Lens Cases/ Lens Hoods

P. 29

Ideal companions for your precious Nikkor lenses.

Lens Cases, Lens Hoods, Lens and Body Caps, Lens strap

Camera Backs

P.25

Adding data imprinting versatility to your valuable film is easy when you've got a Nikon camera back.

For F5: MF-28/MF-27
For F100: MF-29
For F90X: MF-25
For FM3A/FM2: MF-16

Camera Cases/ Straps

Pp. 30-31

These offer the best protection and convenience for your Nikon.

Camera Cases, Compartment Case, Neckstraps, Hand Strap

Speedlights

Nikon Creative Lighting System

The Nikon Creative Lighting System supports Advanced Wireless Lighting and its numerous possibilities for up to four i-TTL Speedlight groups controlled via the master SB-800 Speedlight. This capability significantly enhances the value of Nikon's F6, D2X/H and D70 SLR cameras and SB-800/SB-600 Speedlights. Nikon's Creative Lighting System also offers i-TTL flash control, an evolution of the highly regarded D-TTL system. Enjoy new features such as Flash Value Lock (FV Lock), AUTO FP High Speed Sync, Flash Color Information Communication (for digital SLR) and Wide-Area AF-Assist Illuminator for the F6/D2X/D2H's 11-area AF system and D70's Five-area AF system.

i-TTL Balanced Fill-Flash

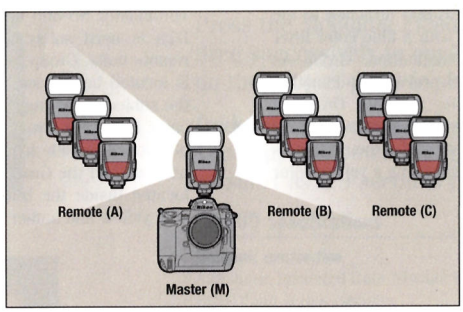
The new i-TTL Flash Control system supports Automatic Balanced Fill-Flash that delivers outstanding results as well as new creative possibilities. Nikon's new Advanced Data Communication system features a new method for performing monitor pre-flash and improved wireless operation. This new technology takes flash control system precision to unprecedented levels.

Advanced Wireless Lighting

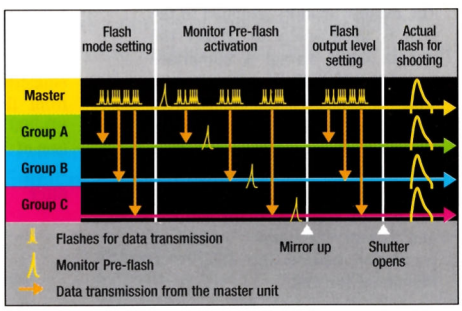
Thanks to Nikon's Creative Lighting System, Advanced Wireless Lighting (same as "wireless multiple flash") is as easy to use as an on-camera Speedlight, enabling professionals and advanced amateurs alike to freely test the seemingly limitless creative potential of the system. You can separate i-TTL Speedlights into four groups (comprised of the master* and three remote i-TTL Speedlight groups), for comprehensive control over scene lighting. Independent flash mode settings (TTL, Auto Aperture [Non-TTL Auto], Manual, Repeating and Flash Cancel) and any-time adjustment of flash output level compensation values for each group can be controlled from the master.

There is no limit to the number of Speedlights contained in each group, giving you virtually absolute control over background illumination.

*SB-600 cannot be used as a master unit.

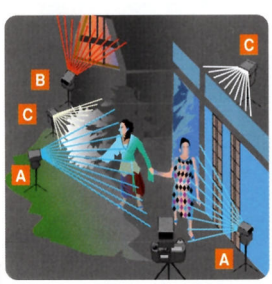


Advanced Wireless Lighting
Using the master unit's LCD, you can set the flash mode and flash output level compensation values independently for each group (A, B and C) and the master unit (M).



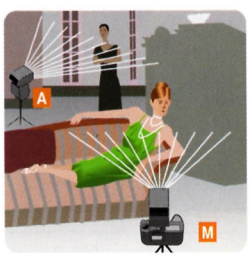
Advanced Wireless Lighting procedure (when TTL mode is selected for each Speedlight unit)
In Advanced Wireless Lighting, flash mode and other types of information are transmitted to each remote unit in the form of a series of low-level flashes from the master unit. In TTL mode, the camera's exposure metering sensor detects Monitor Pre-flashes to determine each flash unit's flash output level.

Setting:
The master SB-800 attached to the D2H is employed solely to trigger the remote units. Two SB-800s (Group A) with blue color filters illuminate the main subjects from the left and right front. One SB-800 (Group B) fitted with a red color filter illuminates the wall of the house in the background. The illumination of the background fog (from behind) and the window to the right is performed by the Group C SB-800s.



Advanced Wireless Lighting Benefits

Without compensation — A: +1.0 EV — M: +1.0 EV

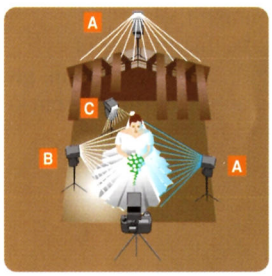


The ability to adjust the flash output level of every flash unit from the camera gives you the freedom to experiment with a variety of settings much faster and more simply than with conventional systems. For convenience in pre-shooting lighting confirmation, there's the Modeling flash function.

See where Advanced Wireless Lighting can take you

Wedding Day

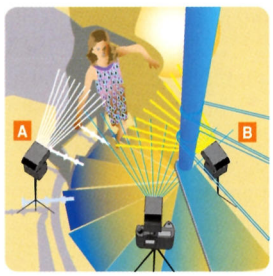
Direct flash



Setting:
The master SB-800 attached to the D2H is used solely to trigger the remote units. Group A comprises two SB-800s (full output), one which illluminates the ceiling from outside and one to illuminate the subject from the right using a blue color filter. The two SB-800s in Group B illuminate the bride from the left to emphasize the outline, and Group C's single SB-800 is positioned behind the subject to illuminate the veil.

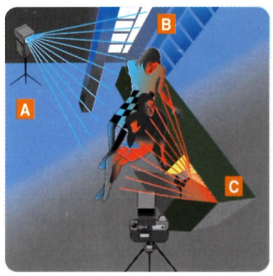
Spiral Staircase

w/o color filter



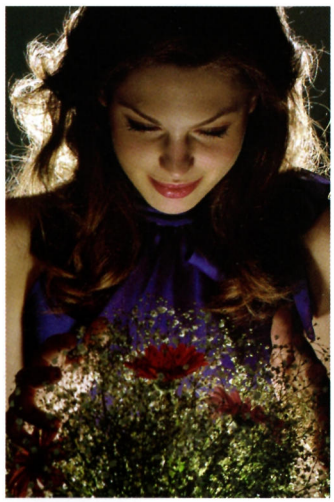
Setting:
The master SB-800 attached to the D2H is fitted with a blue color filter for frontal illumination. Group A's single SB-800 provides illumination from the left, and the Group B SB-800 is positioned behind the portion of the staircase to the right, providing side light using a yellow color filter.

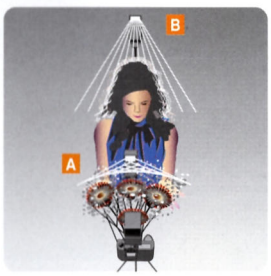
Mystery Box



Setting:
The master SB-800 attached to the D2H is used solely to trigger the remote units. Group A's only SB-800 is located behind and to the left of the subjects, casting light via a blue color filter. The Group B SB-800 is positioned outside to illuminate the window, and the Group C SB-800 is located inside the box itself, fitted with yellow and amber color filters.

Enchanted

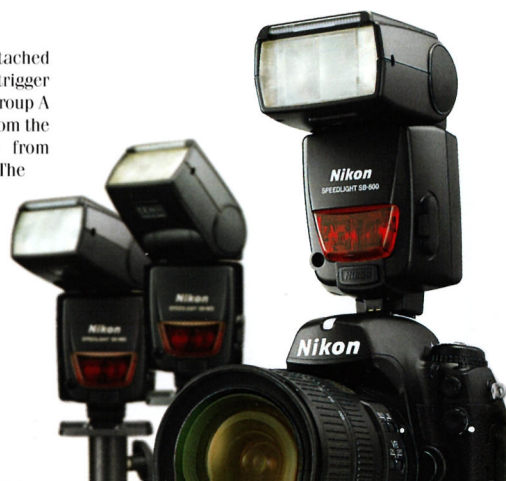




Setting:
The master SB-800 attached to the D2H only triggers the remote units. The Group A SB-800 is behind the flowers, covered by a soft dome. The Group B SB-800 illuminates the subject from behind.

Shadows and Light

Setting:
The master SB-800 attached to the D2H serves to trigger the remote units. The Group A SB-800 is suspended from the ceiling to illuminate from above using a diffuser. The Group B SB-800 is located on the floor and creates the shadows of the chairs on the wall.



Other functions of Nikon's Creative Lighting System

AUTO FP High Speed Sync
This new mode offers ample fill-in flash during shooting in bright conditions using fast-aperture lenses, enabling effective blur in the background. Once the mode is activated, high-speed flash synchronization in the camera makes available shutter speeds that are faster than the camera's own flash sync speed.

Flash Value Lock (FV Lock)
Flash Value represents the degree of flash exposure for the subject. FV Lock lets you maintain the desired flash exposure during zooming or even when recomposing a shot, allowing you to concentrate on the scene's lighting.

Wide-Area AF-Assist Illuminator
Compared to the other Speedlights, the SB-800 and SB-600 emit AF-Assist Illumination over a much wider area during autofocus operation. This gives you autofocus shooting capability in dim lighting even when you change the focus area with a compatible camera.

Flash Color Information Communication
Color accuracy in digital SLR flash photography is higher than ever thanks to Nikon's Creative Lighting System. In Auto White Balance mode, the master unit attached to the digital SLR camera transmits flash color information to the camera. Voltage, flash duration and other variables can affect flash color information. The data related to these factors is sent to the camera and is important in achieving optimum white balance.

AUTO FP High Speed Sync

AUTO FP High Speed Sync
Shutter Speed: 1/640 second
Aperture: f/2.8

Normal flash sync
Shutter Speed: 1/250 second
Aperture: f/6.3

Autofocus Speedlight
SB-800
A revolutionary achievement in support of Nikon's Creative Lighting System

With color filter

Color Filters
The SB-800 Speedlight ships with two filters developed exclusively for digital cameras — one for incandescent and the other for fluorescent lighting. The optional SJ-1 Color Filter Package, which contains 8 different colored filters, is also available.

Without filter **With incandescent filter**

Taking flash pictures under incandescent light with the white balance set to "Flash" results in an orange-tinted background (left). For natural color throughout the image, use the incandescent filter and set white balance to "Incandescent" (right).

The SB-800 is a high-performance Speedlight with a large guide number of 38 (ISO 100, m) or 53 (ISO 200, m) at the 35mm zoom-head position. Depending on the camera and lens used with the SB-800, you can employ TTL auto flash, Non-TTL flash, and Manual flash control. Other features include a built-in wide-flash adapter for 14mm flash coverage, Distance-Priority Manual Flash Control, Modeling Flash, and Auto Zoom for flash coverage from 24mm to 105mm.

Distance-Priority Manual Flash Mode
Once you've entered the shooting distance value, even changing the aperture won't alter the flash exposure.

Modeling Flash
Press the Modeling Flash button, and a series of low-level flashes are fired successively to confirm illumination and shadows that may be cast on the subject prior to shooting.

Quick Recycling Battery Pack
The supplied Quick Recycling Battery Pack SD-800 offers recycling time as short as 2.9 seconds in Manual mode at full output.

SB-800 Specifications

Electronic construction
Automatic Insulated Gate Bipolar Transistor (IGBT) and series circuitry

Flash exposure control
TTL automatic control with Nikon F6, F5, F100, F80, F75, F65, FM3A, D2X/H, D1 series, D100 or D70; Non-TTL automatic control; Manual control: full, 1/2, 1/4, 1/8, 1/16, 1/32, 1/64 and 1/128 output

Guide number (ISO 100, m)
38 (with zoom head set at 35mm)

Flash coverage
24mm, 28mm, 35mm to 105mm (in 5mm zoom steps); 17mm, 14mm with built-in wide-flash adapter; 14mm with soft dome

Film speed range in TTL auto flash mode
ISO 25 to 1600

Recycling time
Approx. 2.9 seconds with supplied Quick Recycling Battery Pack SD-800 (Manual at full)

Number of flashes
Approx. 130 (Manual at full)

AF-Assist Illuminator
Automatically fires LED beam toward subject when performing autofocus with Nikon AF SLRs in low-light conditions; cancelable

Power source
Four 1.5V LR6 (AA-size alkaline), 1.2V KR-AA (AA-size NiCd), 1.5V R6/AA-size Nickel, 1.2V (R6/AA-size Ni-MH) or 1.5V FR6/AA-size lithium batteries; DC Unit SD-7, High-Performance Battery Pack SD-8A, Power Bracket Unit SK-6A/6

Dimensions (W × H × D)
Approx. 70.5 × 129.5 × 93.0mm

Weight (without batteries)
Approx. 350g

Other features
Ready-light, open-flash button, sync/multiple flash terminal, modeling flash, LCD panel illumination, soft dome

Accessories provided
Quick Recycling Battery Pack SD-800, Speedlight Stand AS-19, Speedlight Color Filter Set SJ-800, Diffusion Dome SW-10H, Soft Case SS-800

Specifications apply when fresh LR6 (AA-size alkaline) batteries are used at normal temperature (20°C); AF-Assist Illuminator, zoom flash or LCD illuminator is not used.

Using Advanced Wireless Lighting to create side lighting
(with SB-800 as a master unit and SB-600 as a remote i-TTL Speedlight)

SB-600

Compact Speedlight supports Nikon's Creative Lighting System

The SB-600 is a portable, high-performance Speedlight that supports Nikon's Creative Lighting System. Within its compact body, the SB-600 has inherited most of the creative features of the SB-800 to offer a truly impressive range of possibilities. It features a guide number of 30 (ISO 100, m at 35mm) and automatic power zoom coverage from 24mm to 85mm. The built-in wide flash adapter increases the angle of coverage to a range of 14mm to 85mm. A tilting/rotating flash head makes it easy to perform bounce flash shooting. Depending on the camera and lens you use with the SB-600, you can employ TTL auto flash and Manual flash control. Other features include Advanced Wireless Lighting* (including Modeling flash), Flash Value Lock (FV Lock), AUTO FP High Speed Sync, Wide-Area AF-Assist Illuminator and Flash Color Information Communication (for digital SLR).

*The SB-600 cannot be used as the master unit for Advanced Wireless Lighting operation.

SB-600 Specifications

Electronic construction
Automatic Insulated Gate Bipolar Transistor (IGBT) and series circuitry
Flash exposure control
TTL automatic control with Nikon F6, F5, F100, F80, F75, F65, FM3A, D2X/H, D1 series, D100 or D70; Manual control: full, 1/2, 1/4, 1/8, 1/16, 1/32 and 1/64 output
Guide number (ISO 100, m)
30 (with zoom head set at 35mm)
Flash coverage
85mm, 70mm, 50mm, 35mm, 28mm, 24mm, 14mm with built-in wide-flash adapter
Film speed range in TTL auto flash mode
ISO 25 to 1600
Recycling time
Approx. 4.0 seconds (Manual at full output)
Number of flashes
Approx. 180 (Manual at full output)
AF-Assist Illuminator
Automatically fires LED beam toward subject when performing autofocus with Nikon AF SLRs in low-light conditions; cancelable
Power source
Four 1.5V LR6 (AA-size alkaline), 1.2V KR-AA (AA-size NiCd), 1.5V R6/AA-size Nickel, 1.2V R6/AA-size Ni-MH or 1.5V FR6/AA-size lithium batteries
Dimensions (W × H × D)
Approx. 75.5 × 125.0 × 88.4mm
Weight (without batteries)
Approx. 300g
Other features
Ready-light, open-flash button, Modeling flash (only for wireless remote), LCD panel illumination
Accessories provided
Speedlight Stand AS-19, Soft Case SS-600

SB-27

Smart, compact TTL Speedlight

Easy to carry and easy to use, Nikon's SB-27 Speedlight offers a guide number of 30 (at 35mm setting, ISO 100, m) and automatic power zoom coverage from 24mm to 50mm. The SB-27 also performs sophisticated 3D Multi-Sensor Balanced Fill-Flash photography and features a rotating flash head for precise control of your subject's shadow. You can use the bounce-flash adapter to soften shadows and create natural lighting and use the built-in diffuser card to create catchlights in your subject's eyes. The SB-27 also offers Red-Eye Reduction.

SB-27 Specifications

Electronic construction
Automatic Insulated Gate Bipolar Transistor (IGBT) and series circuitry
Flash exposure control
TTL automatic control with Nikon F6, F5, F100, F80, F75, F65, or FM3A; Non-TTL automatic control; Manual control: full, 1/2, 1/4, 1/8 and 1/16 output
Guide number (ISO 100, m)
30 (with zoom head set at 35mm)
Flash coverage
50mm, 35mm, 28mm, 24mm (horizontal position); 70mm, 50mm, 35mm (vertical position)
Film speed range in TTL auto flash mode
ISO 25 to 1000
Recycling time
Approx. 5 seconds (Manual at full)
Number of flashes
Approx. 140 (Manual at full)
AF-Assist Illuminator
Automatically fires LED beam toward subject when performing autofocus with Nikon AF SLRs in low-light conditions
Power source
Four 1.5V LR6 (AA-size alkaline) or 1.2V KR-AA (R6/AA-size NiCd) or 1.5V FR6 (AA-size lithium) batteries; DC Unit SD-7*; Battery Pack SD-8A
*SD-7 is not available in European countries
Dimensions (W × H × D)
Approx. 107 × 70 × 97mm (horizontal position without mounting foot)
Weight (without batteries)
Approx. 340g
Other features
External power source terminal/sync terminal provided

SB-22s

The economical compact Speedlight

- TTL automatic control
- AF-Assist Illuminator
- Aperture/distance range chart attached
- Wide-flash adapter
- Tilting flash head

SB-22s Specifications

Electronic construction
Automatic Insulated Gate Bipolar Transistor (IGBT) and series circuitry
Flash exposure control
TTL automatic control with Nikon F6, F5, F100, F80, F75, F65, or FM3A; Non-TTL control; Manual control: full output
Guide number (ISO 100, m)
28; 20 (with wide-flash adapter)
Flash coverage
35mm; 28mm (with wide-flash adapter)
Film speed range in TTL auto flash mode
ISO 25 to 1000
Recycling time
Approx. 5 seconds (Manual at full)
Number of flashes
Approx. 230 (Manual at full)
AF-Assist Illuminator
Automatically fires LED beam toward subject when performing autofocus with Nikon AF SLRs in low-light conditions
Power source
Four 1.5V LR6 (AA-size alkaline) or 1.2V KR-AA (R6/AA-size NiCd) or 1.5V FR6 (AA-size lithium) or 1.2V R6/AA-size Ni-MH batteries
Dimensions (W × H × D)
Approx. 68 × 105 × 80mm (without mounting foot)
Weight (without batteries)
Approx. 210g
Other features
Ready-light, open-flash button, sync flash terminal

SB-23

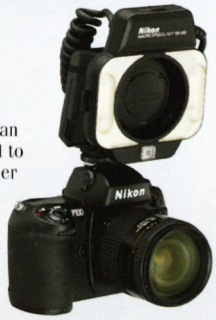
Bright, compact TTL Speedlight

- TTL automatic control
- AF-Assist Illuminator
- Aperture/distance range chart attached

SB-23 Specifications

Electronic construction
Automatic silicon-controlled rectifier and series circuitry
Flash exposure control
TTL automatic control with Nikon F6, F5, F100, F80, F75, F65, or FM3A; Manual control: full output
Guide number (ISO 100, m)
20
Flash coverage
35mm
Film speed range in TTL auto flash mode
ISO 25 to 1000
Recycling time
Approx. 2 seconds (full output)
Number of flashes
Approx. 400 (full output)
AF-Assist Illuminator
Automatically fires LED beam toward subject when performing autofocus with Nikon AF SLRs in low-light conditions
Power source
Four 1.5V LR6 (AA-size alkaline), 1.2V KR-AA (R6/AA-size NiCd) or 1.5V FR6 (AA-size lithium) batteries
Dimensions (W × H × D)
Approx. 64 × 67 × 84mm (without mounting foot)
Weight (without batteries)
Approx. 140g
Other feature
Ready-light

SB-29s Reveal the beauty in the details



Main unit can be attached to the controller

This Speedlight lets you use TTL automatic exposure, for wraparound lighting of close-up subjects — free from distracting shadows. This is made possible by two built-in flash modules which deliver full-surround illumination. The flash output balance (left:right, right:left) can be set to 1:4. And for a viewfinder preview of the effect the flash will have on the scene you're preparing to shoot, there's modeling flash mode. Extremely accurate focus adjustment is supported by a convenient focus illuminator, and a wide illlumination panel lets you shoot flash-to-subject distances closer than 40mm.
The SB-29s provides an M1/32 flash output, which ensures accurate exposure with current and future generations of digital cameras featuring high sensitivity.

With an ordinary flash unit using a remote cord.

SB-29s Specifications

Electronic construction
Automatic silicon-controlled rectifier and series circuitry
Flash exposure control
TTL automatic control with Nikon F6, F5, F100, F80, F75, F65, or FM3A; Manual control: full (M), 1/4 (M1/4) and 1/32 (M1/32) output
Guide number (ISO 100, m)
11 for both flash modules (12 for single module) at full flash output; 5.5 for both flash modules (6.0 for single module) at M1/4 flash output
Flash coverage
20mm (flash modules set horizontally); 24mm (flash modules set vertically)
Modeling illuminator
Repeat firing at approx. 40 Hz
Film speed range
ISO 25 to 1000
Recycling time
Approx. 3 seconds (Manual at full)
Number of flashes
Approx. 300 (Manual at full)
Power source
Four 1.5V LR6 (AA-size alkaline), 1.5V FR6 (AA-size lithium), 1.2V AA-size Ni-MH or 1.2V KR-AA (R6/AA-size NiCd) batteries
Dimensions (W × H × D)
Main unit: Approx. 119 × 133 × 28.5mm
Controller: Approx. 69 × 106.5 × 88.5mm
Weight (without batteries)
Approx. 410g
Accessories provided
3 Adapter Rings (ø52mm, ø62mm, ø72mm)

Specifications apply when fresh LR6 (AA-size alkaline) batteries are used at normal temperature (20°C).

Camera/Speedlight Compatibility

	SB-800	SB-600	SB-27
F6	i-TTL AA A M GN RPT ◉ AF ZOOM	i-TTL M ◉ AF ZOOM	3D A M ◉ AF ZOOM
F5	3D AA A M GN RPT AF ZOOM	3D TTL M AF ZOOM	3D A M AF ZOOM
F100	3D AA A M GN RPT ◉ AF ZOOM	3D TTL M ◉ AF ZOOM	3D A M ◉ AF ZOOM
F80/F75	3D AA A M GN RPT ◉ AF ZOOM	3D TTL M ◉ AF ZOOM	3D A M ◉ AF ZOOM
F65	🎭 AA A M GN RPT ◉ AF ZOOM	🎭 TTL M ◉ AF ZOOM	🎭 A M ◉ AF ZOOM
F55	A M GN RPT AF	—	A M AF
FM3A	TTL A M GN RPT	TTL M	TTL A M
D2X/H	i-TTL AA A M GN RPT ◉ AF ZOOM	i-TTL D-TTL M ◉ AF ZOOM	A M ◉
D1 series	D-TTL AA A M RPT ◉ AF ZOOM	D-TTL M ◉ AF ZOOM	A M ◉ AF ZOOM
D100	D-TTL AA A M GN RPT ◉ AF ZOOM	D-TTL M ◉ AF ZOOM	A M ◉ AF ZOOM
D70	i-TTL AA A M GN RPT ◉ AF ZOOM	i-TTL M ◉ AF ZOOM	A M ◉ AF ZOOM

	SB-22s	SB-23	SB-29s
F6	◎ TTL A M AF	◎ TTL M AF	◎ M
F5	◎ TTL A M AF	◎ TTL M AF	◎ M
F100	◎ TTL A M AF	◎ TTL M AF	◎ M
F80/F75	◎ TTL A M AF	◎ TTL M AF	◎ M
F65	🎭 TTL A M AF	🎭 TTL M AF	🎭 M
F55	A M	—	M
FM3A	TTL A M	TTL M	TTL M
D2X/H	A M AF	M AF	M
D1 series	A M AF	M AF	M
D100	A M AF	M AF	M
D70	A M AF	M AF	M

Note: This chart shows the features available when the Speedlight is connected directly to each Nikon camera, and standard features with an AF Nikkor lens attached.

i-TTL Balanced Fill-Flash
Flash output level is decided before actual shooting, according to data from the TTL Multi Sensor or 1005-pixel RGB sensor, distance information from the lens in use and the results of Monitor Pre-flash.

3D Multi-Sensor Balanced Fill-Flash
The camera's built-in computer determines which segments of TTL Multi Sensor should be used for TTL automatic balanced fill-flash operation, according to data from the TTL Multi Sensor, distance information from the lens in use and the results of Monitor Pre-flash.

D-TTL Flash
TTL auto flash mode for Nikon Digital SLRs. The flash output level is attained before shooting based on Monitor Pre-flash and distance information.

Multi-Sensor Balanced Fill-Flash
TTL flash control using the TTL Multi Sensor. Monitor Pre-flash is not available.

Matrix Balanced Fill-Flash
Based on the results of Matrix Metering, the flash output level is adjusted for the most well-balanced exposure between the main subject and background.

Standard TTL Flash
The main subject is correctly exposed regardless of the background brightness.

Auto Aperture Flash
The flash output level is automatically controlled by the flash sensor on the Speedlight according to the aperture setting on the camera.

Non-TTL Auto Flash
The flash output level is automatically controlled by the flash sensor on the Speedlight according to the aperture manually set on the Speedlight.

Manual
The flash output level is manually set on the Speedlight.

Distance-Priority Manual Flash
Once the shooting distance value is set, even changing the aperture won't alter the flash exposure.

Repeating Flash
The Speedlight delivers a strobe effect, firing the flash continuously at selected rates.

Red-Eye Reduction
Minimizes red-eye effect, for natural-looking flash portraits.

AF-Assist Illuminator
Projects LED light on the subject, making it possible to focus on the subject even in total darkness.

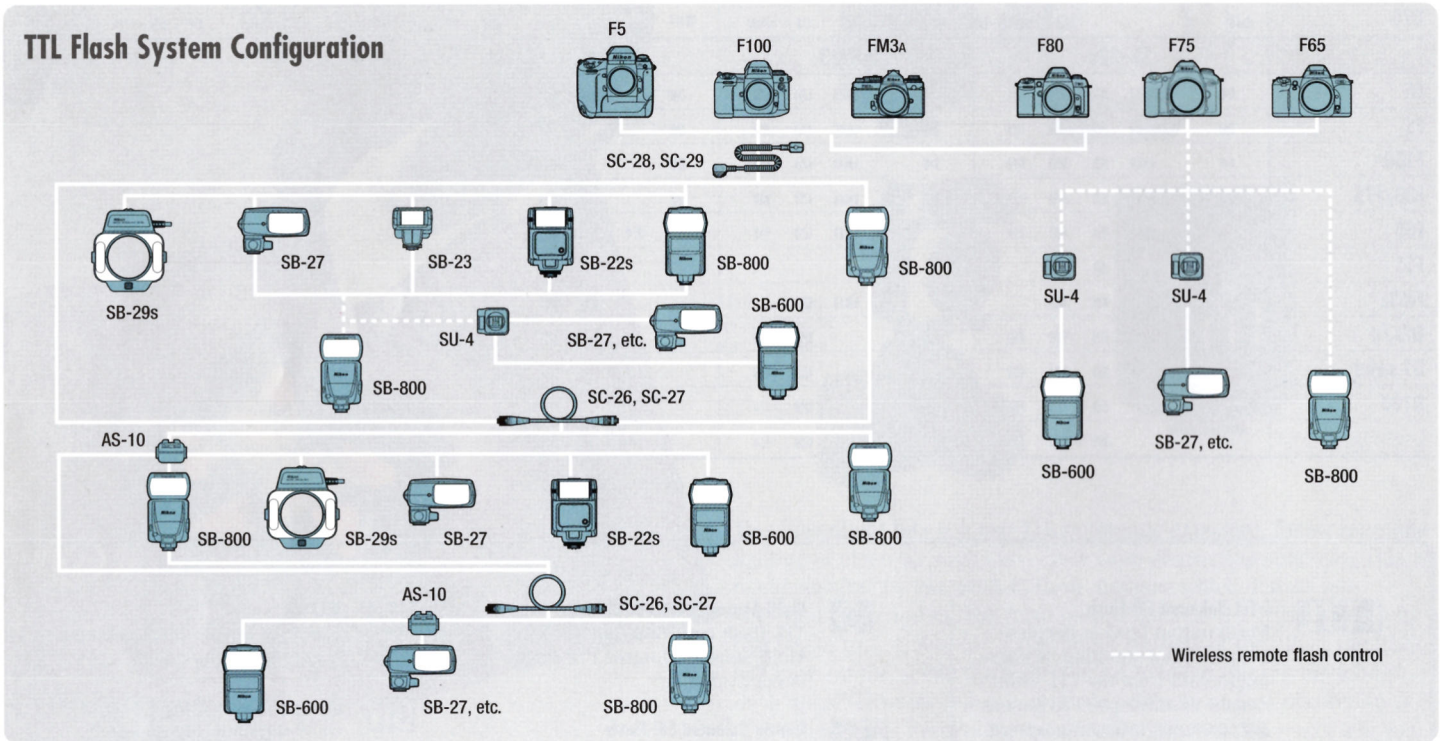
Automatic power zoom
The zoom head is automatically adjusted according to the focal length of the lens in use.

TTL Flash System

Nikon's professional-quality TTL multiple-flash system is designed so that even a novice can use it with confidence right away. Choose any combination of TTL Speedlights with your Nikon F5, F100, FM3A, F80, F75 or F65 camera. Then use the TTL remote or TTL multi-flash sync cord available for TTL off-camera or multi-flash photography. You're all set for off-camera multiple-flash photography — without the strong shadows. You'll be able to create stunning effects and always get perfectly exposed pictures. Plus, there's no need for complicated manual exposure-value calculation or accessory flash meters.

Note: With SB-800 and SB-600 Speedlights the F6, D2X/H and D70 can perform wireless multiple flash shooting with i-TTL Flash Control. Digital SLR cameras (D2X/H, D1 series, D100 and D70) cannot be used for multiple flash shooting in TTL auto flash mode. Multiple flash is possible with these cameras in manual or Non-TTL auto flash mode.

TTL Flash System Configuration



Accessories for TTL Flash System

SU-4 SC-28 SC-29 SC-14 SC-26/SC-27 SC-24 AS-10

Wireless Slave Flash Controller SU-4
When connected to a Nikon Speedlight with ISO-type mounting, this enables wireless TTL flash control when using another Nikon Speedlight as a master unit. The provided Diffuser reduces the built-in Speedlight's output, making the remote unit a main flash. (i-TTL/D-TTL operation is not possible.)

Note: You have to cancel the Monitor Pre-flash function before using the SU-4 for wireless remote flash operation.

TTL Remote Cord SC-28/SC-29 (1.5m)
The TTL Remote Cord SC-28/SC-29 comes with two multiple flash terminals, making off-camera TTL flash control easy. With the F6, D2X/H, the SC-29 also works as an external AF-assist illuminator.

TTL Remote Cord SC-14 (1m)
This cord is convenient for off-camera TTL automatic flash control of the SB-16A or SB-17 with the Nikon F3 series.

TTL Multi-Flash Sync Cord SC-26 (1.5m)/SC-27 (3m)
TTL Multi-Flash Sync Cord SC-26/SC-27 connects TTL flash units to each other through the TTL Remote Cord SC-28/SC-29 for multi-flash operation. (i-TTL/D-TTL operation is not possible.)

TTL Remote Cord SC-24 (1.5m)
For TTL flash control when using the Nikon F5 with DW-30 or DW-31 and the Nikon F4 series with DW-20 or DW-21.

TTL Multi-Flash Adapter AS-10
Attach the AS-10 to a Nikon Speedlight such as the SB-800 or SB-27. Connect additional TTL Speedlight units with the SC-26 or SC-27. The AS-10, featuring tripod socket, controls up to three TTL Speedlight units.

Flash Accessories

Power Bracket

SB-800 + SC-29
The SC-29 lets you use the SB-800 without attaching it directly to the camera, and even enables AF-Assist Illumination when used with the F6, D2X/H.

Power Bracket Unit SK-6A*
Not only does the SK-6A enable you to use the camera-mountable SB-800 as a grip-type flash, it also offers you remote-flash capability. Used as an external power source, in combination with the Speedlight's own power source, the SK-6A reduces minimum recycling time by about half and doubles the total number of flashes available. It accepts six 1.5V LR6 (AA-size alkaline), 1.2V KR-AA (R6/AA-size NiCd) or 1.5V FR6 (AA-size lithium) batteries.
* The SK-6 may be substituted for the SK-6A in some countries.

SK-6A+SB-800+F100

Bracket

SK-7

Bracket SK-7
This enables you to attach a TTL Speedlight unit next to a Nikon SLR.
By connecting the TTL Speedlight unit and Nikon SLR's accessory shoe with the TTL Remote Cord SC-28/29, you can use the Speedlight as a grip-type flash.

Adapter

AS-15

Sync Terminal Adapter AS-15
The AS-15 is designed for use with Nikon cameras with standard ISO-type accessory shoes which do not have a sync terminal.

Speedlight Stand

AS-19

Speedlight Stand AS-19
The Speedlight Stand AS-19 is designed for stable placement of a Nikon Speedlight. Use the AS-19 for setting remote flash unit(s) in multiple remote flash shooting. The AS-19 also features a tripod socket.

External Power Sources

SD-8A

High-Performance Battery Pack SD-8A
The SD-8A is designed for use with the SB-800 and SB-27 to shorten flash recycling time and enhance flash capacity. It accepts six 1.5V LR6 (AA-size alkaline), 1.2V KR-AA (R6/AA-size NiCd), 1.5V FR6 (AA-size lithium) or 1.2V R6/AA-size Ni-MH batteries.

SD-7

DC Unit SD-7
The SD-7 accepts six LR14 (C-type) batteries, and is designed as a separate power source for the SB-27.
Note: The SD-7 is not available in European countries.

Flash Unit Couplers

Flash Unit Coupler AS-17 (for F3 series)
This unit gives you TTL flash control capability for the F3 when used with TTL Speedlights that feature an ISO-type mounting foot (i.e. the SB-800, etc.).

Flash Unit Coupler AS-7 (for F3 series)
The AS-7 is required when using the F3 series with the SB-800, SB-27 or SB-29s. It lets you rewind or replace film without removing the coupler.

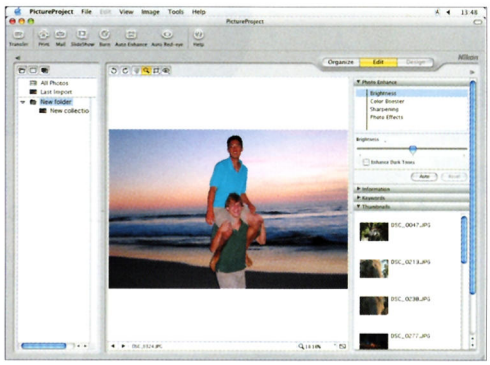
Flash Unit Coupler AS-6
As for the SB-16A, for Nikons with standard ISO-type accessory shoes, there's the AS-6.

Software for Nikon Digital Cameras

The postproduction imaging tool that's a key element to an efficient, effective digital imaging workflow.

Nikon's newly upgraded image-enhancement software affords you the ability to explore digital imaging more in-depth, and grants you a high degree of control via your personal computer.

PictureProject



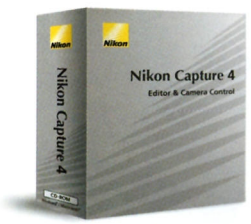
PictureProject

Designed to provide a simple, intuitive and seamless experience for digital photographers of all skill levels, PictureProject incorporates powerful tools that will make the process of transferring, organizing, editing, and sharing digital images easy, productive, and fun. A strategically important product in Nikon digital photography, PictureProject is available not only to Nikon digital camera users, but to users of other makers' digital cameras as well.

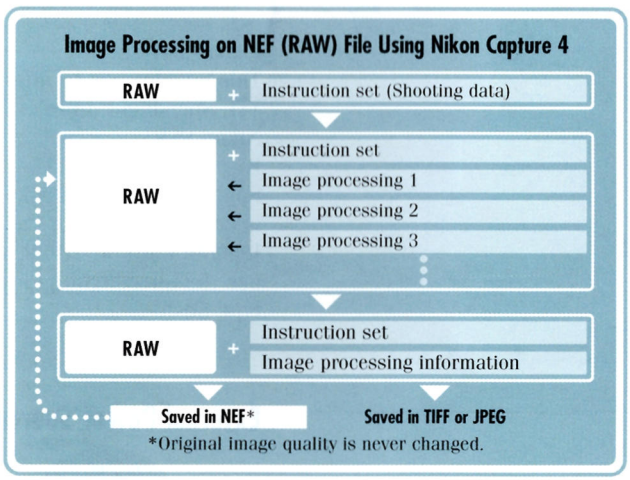
Major features

- Image files are automatically imported when a camera is connected to the user's computer, with thumbnail previews for easy image pre-selection and confirmation.
- Drag-and-drop images to organize them into "collections" that can be easily accessed.
- Powerful search capabilities to locate any image quickly by name, keyword, captured or modified date, etc.
- Intuitive editing tools simplify the enhancement of your images and the incorporation of creative effects.
- Any and all changes made to images can be reset or modified as many times as desired without affecting the original image file.
- Slideshows can include custom background music.
- Design templates make it easy to share images via e-mail and attractive prints.
- New pop-up messaging service employed to deliver software update notifications, and provide links to helpful technical information.
- Image files can be copied to a CD or DVD, if the computer is equipped with a CD-R/W or DVD-R/W drive.

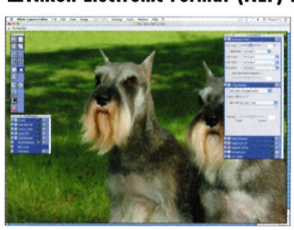
Nikon Capture 4 (ver. 4.1)



A powerful postproduction tool, Nikon Capture 4 comprises Nikon Capture 4 Editor and Nikon Capture 4 Camera Control. Using the software, you can transfer images to your computer, view, edit, and even print them — all in a single process. Nikon Capture 4 gives you comprehensive control over the final quality of your Nikon Electronic Format (NEF) image data.



■Nikon Electronic Format (NEF) File

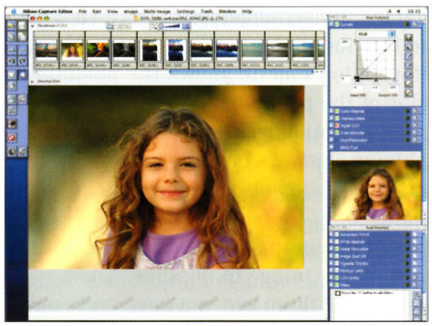


This unique format consists of the RAW data of an image, along with an instruction set that provides extensive image editing capability not available with other file formats. With a NEF file, the original RAW data of an image is never changed. All corrections and adjustments that you make are preserved in the file's instruction set. You can change the instruction set as many times as you like without ever disturbing the original image's RAW data.

Nikon cameras compatible with NEF are the D2X/H, D1 series, D100, D70 digital SLRs, and the COOLPIX 8800, 8700, 8400, 5700 digital compacts.

Nikon Capture 4 Editor

Nikon Capture 4's Editor component provides you with a broad variety of image adjustment tools, some of which can only be applied to NEF (RAW) data.



White Balance*

The tools in the White Balance palette are used to adjust white balance for NEF (RAW) images. White balance can be adjusted by specifying the desired color temperature or by sampling the image for the gray point. You can define white balance using a single point or the average of an area.

Advanced RAW*

Many of the attributes of NEF (RAW) image data can be altered or corrected using the Advanced RAW feature. Exposure Compensation, Sharpening, Tone Compensation, Color Mode, Saturation Setting and Hue Adjustment combine to give you a high degree of control over image quality.

Vignette Control*

This palette's tools are used to correct for loss of marginal illumination, which causes a drop in brightness at the edges of a photograph. Vignette Control is most effective with images captured using a D-/G-Nikkor lens, and at larger apertures.

Image Dust Off*

This function compares NEF (RAW) photographs with a reference image created with the same camera to reduce the effects of any dust that may be present on the low-pass filter protecting the camera's image sensor.

Digital DEE™

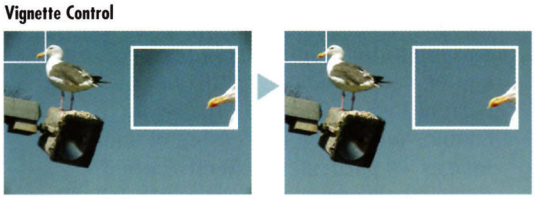
Digital DEE (Dynamic Exposure Extender) reveals details that are obscured by shadows or highlights, correcting for underexposure in backlit subjects or shaded areas of images and overexposure in brightly lit areas.

Note: Digital DEE™ is a technology developed by Applied Science Fiction.

Curves

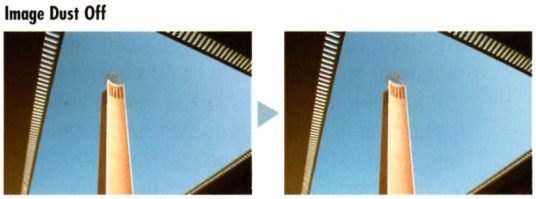
Use the Curves palette to adjust the contrast, tone (brightness) level and color balance of captured images, to make maximum use of the tone range and color gamut offered by a particular output device. This high-precision feature lets you make adjustments to specific portions of the tone range while referring to the histogram display.

Vignette Control



Before After

Image Dust Off



Before After

Digital DEE™

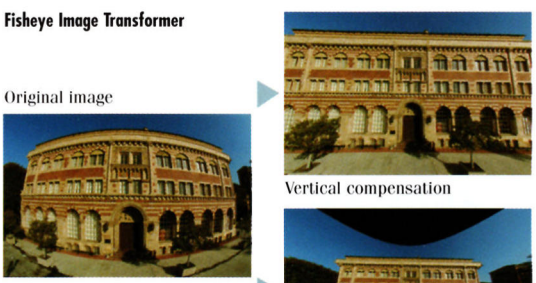
Before After

Noise Reduction

Edge Noise Reduction Off On

Fisheye Image Transformer

Original image



Vertical compensation

Horizontal compensation

Noise Reduction

Random noise that appears in digital camera images — particularly at higher sensitivity (ISO) settings — can be effectively minimized using the Color Noise Reduction function. Edge Noise Reduction makes outlines more distinct by reducing the noise along the edges of a photo. Color Moire Reduction is also usable with NEF images.

Fisheye Image Transformer

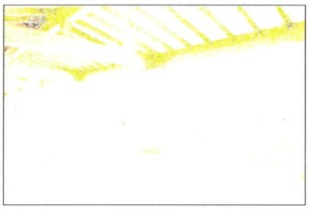
The tools in the Fisheye Lens palette convert images taken with the AF DX Fisheye 10.5mm f/2.8G ED lens to rectilinear images. Both vertical and horizontal compensation can be performed.

*These features can only be applied to NEF (RAW) image data.

Other handy, innovative features

- LCH Editor enables editing of Luminosity (brightness), Chroma (color saturation) and Hue.
- Color Booster allows simple enhancement of overall color saturation according to the type of subject.
- The Color Balance palette offers simple controls for adjustment of overall brightness, contrast and color balance for the entire image.
- Using Unsharp Mask, you can enhance image sharpness by increasing the contrast of the edges of the image, while leaving other areas untouched.
- Size/Resolution lets you specify the final output image size.
- Compatibility with Color Modes Ia and IIIa of the Nikon D70.
- Compatibility with nik Color Efex Pro 2.0 plug-in photographic filters enables quick, easy digital image enhancement. (See page 17.)

"Lost Shadows" display



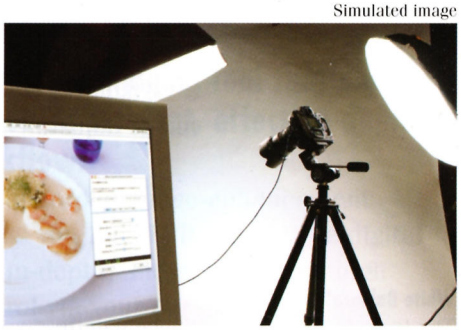
"Lost Highlights" display

Superb operability for improved efficiency

Nikon Capture 4 incorporates tools that allow you to zoom in/out, scroll, rotate, flip and crop images. The Multi-Image Window enables image adjustment while viewing the thumbnail list within a folder. The Information Palette shows the position and color of the pixel under the mouse pointer. Areas of the image that are "lost" by highlights or shadows can be confirmed even during adjustments of Curves and Color Balance.

To enable you to apply the adjustment settings of one image to another, Nikon Capture 4 Editor lets you save and copy the settings independently or simultaneously. The Save Progress window shows all save operations currently in progress, and can be used to pause, restart or cancel the current task. And Batch Processing enables automated processing of multiple images — particularly effective when applied to a series of photographs taken under identical conditions.

Simulated image



Nikon Capture 4 Camera Control

Once you connect a D1-series digital SLR (IEEE 1394), the D2H (USB Hi-Speed) or the D100/D70 (USB) to your computer, the Camera Control component of the Nikon Capture 4 provides you with remote control from your computer of virtually every aspect of camera operation. Pictures taken with the camera will be stored on your computer's hard disk as opposed to the camera's memory card. This turns your computer's hard disk into the equivalent of a large-capacity media card — especially valuable when performing high-volume shooting.

Capture 4 Functions/Cameras Compatibility Chart

Function \ Camera	D2H	D1 series	D100/D70	COOLPIX RAW (NEF)	COOLPIX series
White Balance*1	○	○	○	○	–
Advanced RAW*1	○	○	○	○*2	–
Vignette Control*1	○	○	○	–	–
Image Dust Off*1	○	○*3	○	–	–
Digital DEE	○	○	○	○	○
Curves	○	○	○	○	○
Noise Reduction	○	○	○	○	○
Fisheye Image Transformer*4	○	○	○	–	–
Camera Control	○	○	○	–	–

*1: Can only be applied to NEF (RAW) image data
*2: Color Mode setting is not possible
*3: Compatible with firmware ver.1.10 or later (except D1)
*4: Compatible with AF DX Fisheye 10.5mm f/2.8G ED lens only

Note: When using Nikon Capture with the D2X digital SLR or COOLPIX 8800/8400, version 4.2 or later is required.

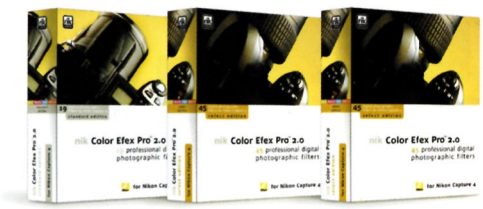
Nikon Capture 4 System Requirements

Macintosh	
OS	Mac® OS 9.0.4, 9.1, 9.2, Mac® OS X (10.1.5 or later)
Models	iMac™, iMac™ DV, Power Mac™ G3 (Blue & White), Power Mac™ G4 or later, iBook™ PowerBook® G3 or later (only built-in USB ports or IEEE 1394 [Firewire] supported)
RAM	Mac OS X: 256MB (768MB or more recommended) Mac OS 9: 512MB or more (Capture Editor), 64MB or more (Camera Control)
Hard disk	200MB required for installation
Display	800 x 600 pixels with 16-bit color (24-bit color recommended)
Others	CD-ROM drive required for installation
Windows	
OS	Pre-installed versions of Windows® 98SE, Windows® Me, Windows® 2000 Professional, Windows® XP Home Edition, Windows® XP Professional
CPU	Pentium® 300MHz or higher
RAM	Windows® XP: 256MB (768MB or more recommended)
Hard disk	200MB required for installation
Display	800 x 600 pixels with 16-bit color (24-bit color recommended)
Others	CD-ROM drive required for installation

Digital Filters

nik Color Efex Pro 2.0

nik Color Efex Pro 2.0 photographic filters, offered by nik multimedia, Inc., make digital photographic enhancements quicker, easier and better. Utilizing the top digital photographic filter technology available, this impressive collection of powerful, versatile filters allow nik Color Efex Pro 2.0 to offer significantly improved image enhancement and transformation.



Versatility to support users of all skill levels

nik Color Efex Pro 2.0 features three editions to best meet the needs of a wide range of photographers. The Standard Edition includes 19 key filters for color and light enhancements. The Select Edition comprises 45 filters, including those available in the Standard Edition. It provides a varied selection of filters used by professionals and serious hobbyists to create a wide range of enhancements and image transformations. The Complete Edition enables professionals to choose from any of the 75 filters in the collection to enhance virtually any image, or to create unique photographic styles in their images.

Multiple filter types

nik Color Efex Pro 2.0 filters are categorized into two groups — "Traditional" and "Stylizing". Traditional filters function like conventional photographic filters, and include B/W Conversion, Polarization, Graduated, Skylight, and Infrared filters. Stylizing filters enable the enhancement of an image or the creation of a photographic style or abstract transformation.

Major features

- Functionality in RGB, CMYK, Grayscale, and LAB, in both 8- and 16-bit/channel modes.
- True Light™ is a dynamic color treatment system that every filter utilizes automatically to provide better color and light enhancements. It preserves the relationships between color, contrast, and detail, delivering more natural film-like images.
- The Advanced Panel (available in selected filters) enables you to see the relationship of highlights and shadows in your image while controlling the enhancement and protecting these elements of the image. A histogram display enables you to identify potential problems in the image.
- Using a Selective tool, access to each of the filters is quick and easy. By simply selecting a filter from the palette, it can be applied to the image.
- As each filter adjusts its effect based on the detail structures, colors and contrast range, consistency across a range of images is possible.
- The capability of the filters to adapt to previous filter adjustments or changes to the image is extremely valuable, as it allows you to apply filters in a different order, giving you increased control and additional enhancement options.
- The Preview Toggle feature enables you to alternate between the original image and the one with the current effect(s) applied.
- The preview area is recalculated each time an adjustment is made to the image.
- You can create customized color filters using any color from a color picker for added versatility.

Note: nik Color Efex Pro 2.0 is compatible with Nikon Capture version 4.1 or later.

Old Photo: Color

before

after

Paper Toner

before

after

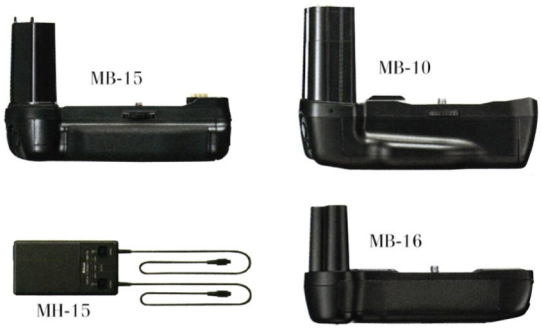
Pro Contrast

before

after

System Requirements

Macintosh	
OS	Mac® OS 9.2.x, Mac® OS X (10.1.5 or later)
Models	G3 processor or later (G4 or later recommended)
RAM	128MB (256MB recommended)
Hard disk	390MB for the Complete Edition, 250MB for the Select Edition, and 110MB for the Standard Edition
Display	800 x 600 pixels with 16-bit color (1,024 x 768 pixels with 24-bit color recommended)
Windows	
OS	Pre-installed versions of Windows® 98SE, Windows® Me, Windows® 2000 Professional, Windows® XP Home Edition, Windows® XP Professional
CPU	Pentium® 300MHz or higher (800MHz or higher recommended)
RAM	128MB (256MB recommended)
Hard disk	300MB for the Complete Edition, 190MB for the Select Edition, and 90MB for the Standard Edition
Display	800 x 600 pixels with 16-bit color (1,024 x 768 pixels with 24-bit color recommended)



For F6

Multi-Power Battery Pack MB-40
Runs on eight 1.5V LR6 (AA-size alkaline), 1.5V FR6 (AA-size lithium), 1.2V R6/AA-size Ni-MH batteries or Rechargeable Li-ion Battery EN-EL4 and provides a film advance speed of up to 8.0 fps. Provides an alternative shutter release button, AF start button, multi selector and command dials to make shooting vertical-format pictures much more comfortable.

For F5

Ni-MH Battery Unit MN-30
This nickel-metal hydride battery unit enables you to make the most of the F5's powerful capabilities. It contributes to film advance speed of up to 8 frames per second, film rewind speed of 4 seconds for a 36-exp. roll and stable camera performance even in cold ambient temperatures. To charge the MN-30, Ni-MH Battery Charger MH-30 is available. The External Power Cord MC-32 with two banana-type plugs connects 12V DC external power source to the F5.

For F100

Multi-Power High Speed Battery Pack MB-15
Runs on six 1.5V LR6 (AA-size alkaline), 1.5V FR6 (AA-size lithium) batteries or MN-15 Ni-MH Battery Pack (optional) and provides a film advance speed of up to 5.0 fps. Provides an alternative shutter release button and command dial to make shooting vertical-format pictures much more comfortable. The Quick Charger MH-15 can be used for the MN-15.

For F90X

Multi-Power Vertical Grip MB-10
A dedicated grip designed for the F90X, the MB-10 provides an alternative shutter release button for vertical shooting. It runs on either four R6/AA-size batteries or two 3V CR123A lithium batteries (with MS-11).

For F80

Battery Pack MB-16
Connected to the tripod socket on the F80 bottom, it accepts four 1.5V LR6 (AA-size alkaline), 1.5V FR6 (AA-size lithium), 1.2V KR-AA (R6/AA-size NiCd) or 1.2V R6/AA-size Ni-MH batteries.

Charger/battery unit compatibility (approx. charging time)

	MN-30 (for F5)	MN-15 (for F100)	EN-4 (for D1series)	EN-3 (for E3)	EN-EL3 (for D100, D70)	EN-EL4 (for F6, D2X/H)	Remarks
MH-30	✔ (100 min.)	—	—	—	—	—	Two battery units can be charged continuously.
MH-17	—	✔ (110 min.)	✔ (160 min.)	✔ (110 min.)	—	—	12V DC; can be plugged in to an automobile cigarette lighter
MH-15	—	✔ (70 min.)	✔ (110 min.)	✔ (70 min.)	—	—	Two battery units can be charged continuously.
EH-3	—	✔ (70 min.)	✔ (110 min.)	✔ (70 min.)	—	—	Two battery units can be charged continuously.
MH-19	✔* (95 min.)	✔* (65 min.)	✔* (110 min.)	✔* (65 min.)	✔ (120 min.)	—	100-240V AC/12V DC; can be plugged in to an automobile cigarette lighter
MH-21	—	—	—	—	—	✔ (100 min.)	

✔: Compatible —: Not compatible
* Use the MC-E1 Charge Cord to recharge or refresh the MN-30, and the MC-E2 Charge Cord for the MN-15, EN-4 and EN-3.

For F75

Battery Pack MB-18
A dedicated grip designed for the F75, the MB-18 provides an alternative shutter release button for vertical shooting. It accepts four 1.5V LR6 (AA-size alkaline), 1.5V FR6 (AA-size lithium), 1.2V KR-AA (R6/AA-size NiCd) or 1.2V R6/AA-size Ni-MH batteries.

For F65

Battery Pack MB-17
Connected to the tripod socket on the F65 bottom, it accepts four 1.5V LR6 (AA-size alkaline), 1.5V FR6 (AA-size lithium), 1.2V KR-AA (R6/AA-size NiCd) or 1.2V R6/AA-size Ni-MH batteries.

For F6/D2x/D2H

Quick Charger MH-21
With the MH-21, you can recharge Rechargeable Li-ion Battery EN-EL4.

For D1 series

Interchangeable Ni-MH Battery Pack EN-4
With the optional interchangeable Ni-MH Battery Pack EN-4, you can enjoy up to approx. 1,000 pictures' worth of extended shooting thanks to the long-life, durable and rechargeable Ni-MH battery. It can be recharged using the optional Quick Charger MH-17. The F100's Quick Charger MH-15, and the E3's EH-3 can also be used.

For D100

Multi Function Battery Pack MB-D100
The optional Multi Function Battery Pack MB-D100 runs on six 1.5V LR6 (AA-size alkaline) batteries. It can also be powered by one or two Li-ion batteries, for extended shooting capability. Features voice memo recording/playback function, vertical shutter release button, Main and Sub Command Dials, AF start button and a 10-pin remote terminal.

For D100/D70

Multi Charger MH-19
With the MH-19, you can recharge two units of the Rechargeable Li-ion Battery EN-EL3. Other batteries can also be recharged by using optional charge cords.

External Power Source

Anti-Cold Battery Holder DB-2 (for FM3A, FM2)
The DB-2 keeps your camera and metering system operating in extreme cold. Remove the two batteries from the camera battery chamber, attach the chamber to the DB-2 loaded with two R6/AA-size* batteries via DB-2 connecting cord, then put the DB-2 in a coat or other warm place.
*Do not use R6/AA-size NiCd, Ni-MH or lithium batteries. A tripod cannot be attached when the DB-2 is connected.

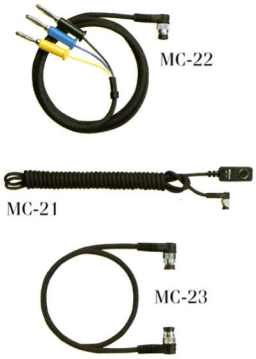
External Battery Pack DB-6 (for F90X)
For added power, especially during prolonged or low-temperature shooting, the Nikon F90X can count on the DB-6, which uses six D-type batteries, as an alternative power source. The DB-6 connects to the F90X via the Nikon External Power Cord MC-29.

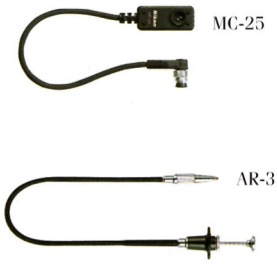
For FM3A/FM2

Motor Drive MD-12
Enables you to shoot at a rate of up to 3.2 frames per second. Lightly pressing the trigger activates the camera's exposure meter.

MD-12 Specifications
Firing rate: Approx. 3.2 fps (at 1/125 s shutter speed or faster)
Shooting modes: Single-frame (S); Continuous (C)
Remote control: Possible; uses standard Nikon 3-pin connector
Power source: Eight 1.5V LR6 (AA-size alkaline), 1.2V KR-AA (AA-size NiCd) or 1.5V R6 (AA-size manganese) batteries (integral battery holder)

Accessories for Motor Drives
Remote Cord MC-10 (3m)
Comes with convenient handgrip and trigger button for remote firing of the MD-4 or MD-12.





Two-Pin Remote Accessories for F4E/F4S/F70/ FM3A with MD-12/ FM2 with MD-12

Terminal Release MR-3
The MR-3 connects to the remote-control terminal to provide an additional trigger button for firing camera in vertical position. It also enables you to trigger the camera with Nikon Cable Release AR-3.

Remote Cord MC-12B (0.8m)*
Enables you to perform remote firing up to 0.8m.

Remote Cord MC-4A (1m)
The plug on one end of the MC-4A connects to the camera's remote-control socket, the other end has both plus and minus banana-type plugs. These banana plugs enable you to simultaneously fire several cameras.

Adapter Cord MC-26 (0.2m)*
Enables use of ten-pin remote cords MC-20, MC-30 and MC-22.

* Function limited when MD-12 mounted; see instruction manual.

Ten-Pin Remote Accessories for F6/F5/F100/ D2X/D2H/D1 series/ D100 with MB-D100

Remote Cord MC-20 (0.8m)
Enables remote firing of a camera and setting of long time exposure of up to 9 hrs. 59 min. 59 sec.

Remote Cord MC-30 (0.8m)
Enables remote firing of a camera with trigger-lock function.

Remote Cord MC-22 (1m)
Useful for connection to shutter triggering device.

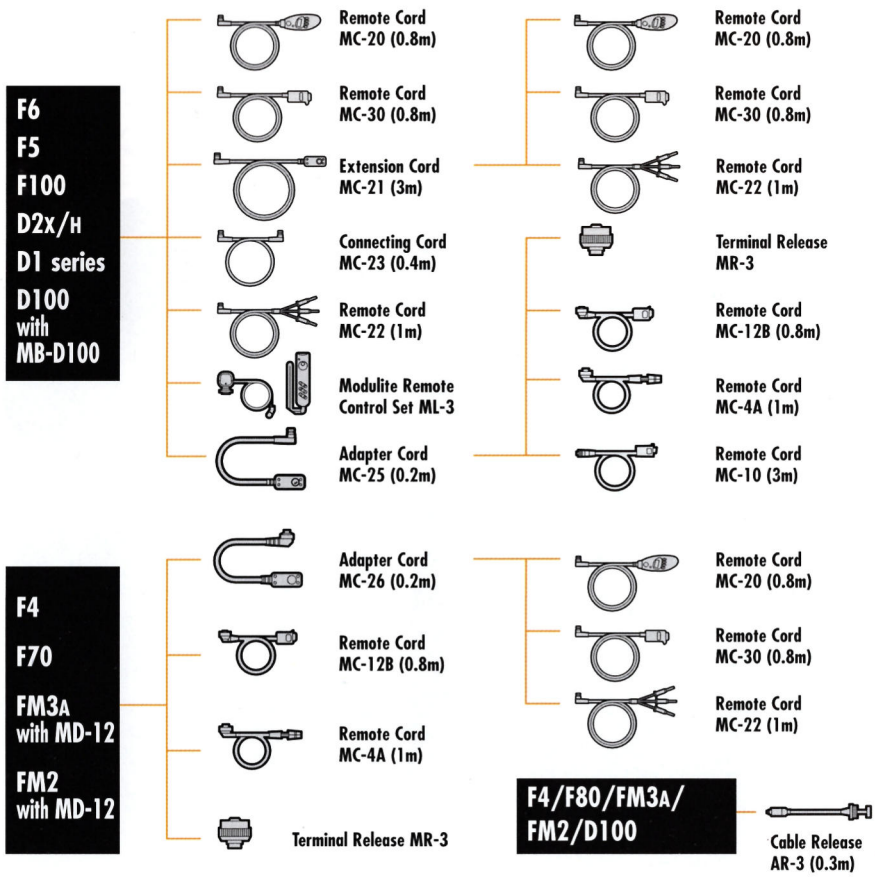
Extension Cord MC-21 (3m)
Used with MC-20, MC-30 or MC-22.

Connecting Cord MC-23 (0.4m)
Connects two cameras for simultaneous or synchronized shutter release.

Adapter Cord MC-25 (0.2m)
Enables use of two-pin remote accessories: MC-4A, MC-12B, and MR-3.

Remote Cable for Cameras with Release Terminal for F4/F80/FM3A/ FM2/D100

Cable Release AR-3 (0.3m)
Essential for slow shutter speeds, these cable releases ensure one-hand, vibration-free shutter release operation.



Long Time Exposure

MV-1

Modulite Remote Control Set

ML-3 (for cameras with ten-pin remote terminal)
The ML-3 offers remote control for two separate channels via an infrared LED beam, enabling automatic camera operation from a distance of up to about 8m. Auto triggering, delayed shutter release, single and continuous shooting are possible.

Specifications
No. of control output channels : Two channels available
Shooting modes : S for single-frame shooting, C for continuous shooting, DELAY for 3 seconds delayed shooting, and TEST for operation check in A, TRIG mode
Number of flashes* (single-frame shooting) : 5,000 or higher
Continuous standby time* : Approx. 200 hours with F5, approx. 190 hours with F100 or F90X
Power source : Transmitter: Two AAA-size alkaline or high-rate manganese batteries; Receiver: Supplied from camera body
Dimensions (W × H × D) : Transmitter: Approx. 117 × 22 × 30mm; Receiver: Approx. 50 × 36 × 47mm
Weight (without batteries) : Transmitter: Approx. 40g; Receiver: Approx. 51g

*With a fresh set of alkaline batteries

Data Communication Accessories

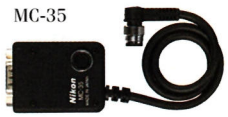
Data Reader MV-1
With the Nikon Data Reader MV-1, shooting data stored in your Nikon F5, F6 or F100 35mm (135) format SLRs can be easily viewed and manipulated on your personal computer.
The data is first transferred from the camera to a memory card set in the MV-1, where it can then be transferred to a PC. Using spreadsheet software such as Microsoft Excel, the transferred data can now be easily viewed and manipulated on your computer. Data record capacity (number of film rolls whose shooting data can be recorded) differs with each camera and recording mode.

Notes:
- In addition to the supplied CompactFlash™ card (8MB EC-8CF), Nikon-guaranteed Type I CF cards can also be used. Type II CF cards and Microdrives, however, cannot be used.
- Transferring data from a memory card to a PC requires additional equipment, such as the PC Card Adapter EC-AD1 or a CF card reader.

Specifications
Power source : Supplied by the camera
Cable length : Approx. 40cm
Dimensions (W × H × D) : Approx. 78 x 25 x 109mm
Weight : Approx. 100g (main unit only, excluding memory card)
Operating conditions : Temperature: 0~40°C, humidity: under 85%

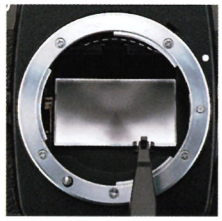
GPS Cable MC-35
GPS Cable MC-35 enables the Nikon D2x digital SLR to be connected with NMEA-0183 protocol-compatible GPS (Global Positioning System) units such as models of GARMIN™ and MAGELLAN™. In this way, GPS position information from satellites and time signals synchronous to UTC (Universal Coordinated Time) are recorded within image data file as shots are taken with the D2x.

MC-35



Changing focusing screens

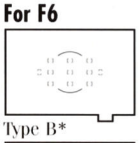
For F5
Remove the finder, then change the focusing screen.

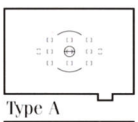


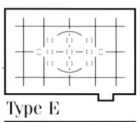
For F6, F100, F90X, FM3A, FM2, D2H/H, D1 series
Remove the lens, then change the focusing screen.

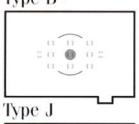
Interchangeable Focusing Screens

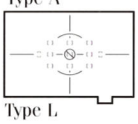
For F6

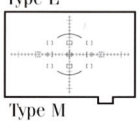

Type B*

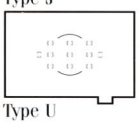

Type A


Type E

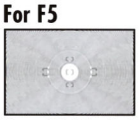

Type J


Type L

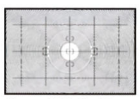

Type M

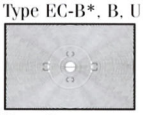

Type U

For F5


Type EC-B*, B, U

Type J


Type EC-E, E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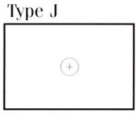
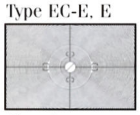
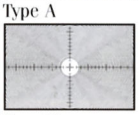
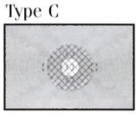
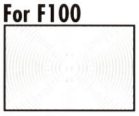

Type C


Type L


Type M


Type G1-4

For F100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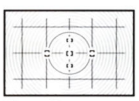
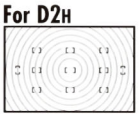

Type E

Focus brackets and 12mm-dia. center circle are not etched on the focusing screens.

For D2H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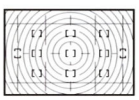
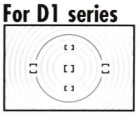
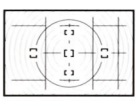

Type E

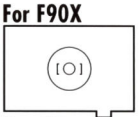
Focus brackets and 8mm-dia. center circle are not etched on the focusing screens.

For D1 series


Type B*


Type E

For F90X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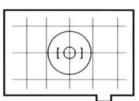
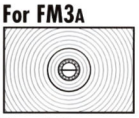
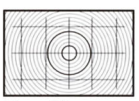
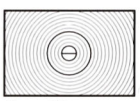

Type E

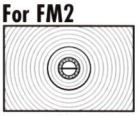
For FM3A

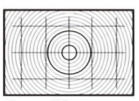

Type K3*


Type E3


Type B3

For FM2


Type K2*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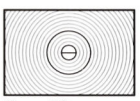

Type B2

* Supplied with product

Types B, B2, B3, D, U
Each screen offers unobstructed viewing and easy focusing over the entire matte surface. Types D and U are especially for telephoto lenses.

Type EC-B (for F5)
With an Electrochromic (EC) device, shows the focus area selected and offers unobstructed viewing and easy focusing on the overall matte surface.

Types K, K2, K3
Feature a matte fresnel field with split-image rangefinder and microprism collar.

Types EC-E (for F5), E, E2, E3
Feature grid patterns that are ideal for architectural photography. Type EC-E screen shows the focus area selected and offers unobstructed viewing and easy focusing.

Types A, J, L, P
Designed for general photography, these screens have either a split-image rangefinder or a microprism or both.

Types C, M
Used for high-magnification close-ups or astrophotography.

Types G (G1~G4)
Exceptionally bright image because matte surface is not used. Suitable for dim light or fast-moving subjects.

Type U
Suitable with telephoto lenses longer than 200mm.

Interchangeable Viewfinders

For F5

Multi-Meter Finder DP-30
Enables all exposure metering systems including 3D Color Matrix. High-eye-point type. Incorporates a built-in diopter adjustment dial (-3 to +1m^{-1}), ISO-standard accessory shoe and eyepiece shutter.

DP-30

AE Action Finder DA-30
Suitable for situations where normal viewing is difficult or impossible. Rubber hood and rubber eyepiece cover are provided.

DA-30

Waist-Level Finder DW-30
For use when the camera is used at a low angle or on a copystand. Fold-up type viewing hood provided. The flip-up magnifier provides approx. 5× magnification at the center of the image.

DW-30

6× High-Magnification Finder DW-31
For critical high-magnification close-up work and photomicrography. Fitted with a -5 to +3m^{-1} diopter adjustment, plus a rubber eyecup and rubber eyepiece cover.

DW-31

Viewing Attachment

Right-Angle Viewing Attachment DR-5/DR-6
Provides an upright, unreversed image for right-angle viewing. Individual eyesight adjustments are possible.
They allow you to set the reproduction ratio to either 1:1 or 1:2.
The DR-5 is for cameras designed with a circular eyepiece, and the DR-6 is for rectangular-eyepiece cameras. An adapter ring is required for F6, F5, F100, D2X/H and D1 series when attaching the DR-5.

DR-6

Eyepiece Magnifier DG-2
Provides 2× magnification of the central portion of the finder image. Eyesight adjustment provided. Useful for critical focusing in close-up photography. An eyepiece adapter is required with all cameras except FM3A and FM2.

DR-5

Rubber Eyecups
Increase viewing comfort and prevent stray light from entering viewfinder and washing out contrast.

DG-2

Eyepiece Correction Lenses
An easy-to-use viewing and focusing aid for near- and farsighted photographers, which enables them to view the finder image accurately without having to wear their eyeglasses.

Antifog Finder Eyepiece DK-14/DK-15/DK-17A
This eyepiece features a transparent plastic plate with a special surface coating which reduces fogging on the eyepiece. DK-14/DK-17A is for Nikon F6, F5, D2X/H and D1 series, while DK-15 is for Nikon F100.

Eyepiece Correction Lenses

●For F100 (–5 to +3m⁻¹, 9 kinds)

●For F6, F5, D2X/H, D1 series (–3 to +2m⁻¹, 5 kinds)

●DK-17C for F6, F5, D2X/H, D1 series (–3 to +2m⁻¹, 5 kinds)

●For FM3A, FM2 (–5 to +3m⁻¹, 9 kinds)

●For F80, F75, F65, F55, D100, D70 (–5 to +3m⁻¹, 9 kinds)

Antifog Finder Eyepiece

●DK-15 for F100

●DK-14 for F6, F5, D2X/H, D1 series

●DK-17A for F6, F5, D2X/H, D1 series

Rubber Eyecups

●DK-3 for FM3A, FM2

●DK-6 for F100

●DK-2 for F5, D2X/H, D1 series

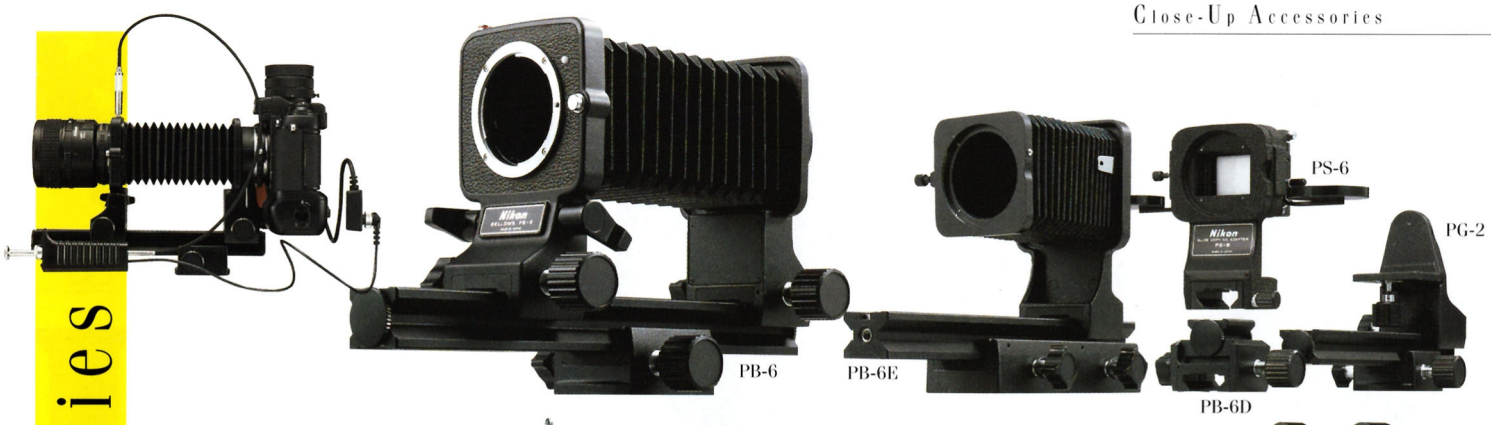
●DK-19 for F6, F5, D2X/H, D1 series

Eyepiece Adapter

●DK-7 for F6, F5, F100, D2X/H, D1 series

●For F80, F75, F65, F55, D100, D70

Close-Up Accessories



BR-2A BR-5 BR-3 ES-1

No. 0 No. 1 No. 2 No. 3T No. 4T No. 5T No. 6T

PB-6M

AR-10
(for F70, MC-25)

AR-7
(for FM3A, FM2)

PK-11A PK-12 PK-13 PN-11

Bellows Focusing Attachment and Accessories

Bellows Focusing Attachment PB-6
Lets you vary the lens extension from 48mm to 208mm, producing frame-filling images of the most minute subjects. Requires an Auto Extension Ring when used with the F6, F5, D2X/H, D1 series or D70.

The Bellows Spacer PB-6D
Enables moving a Nikon F6, F5, D2X/H or D1 series on the PB-6 rail without interference. It also allows horizontal/vertical changeover anywhere along the rail. Two PB-6Ds are needed with the PB-6; three are needed when using the PB-6E.

Extension Bellows PB-6E
Attaches to the PB-6 for magnification to an astounding 23× life-size when using a 20mm wideangle lens in reverse position.

Slide Copying Adapter PS-6
Used with the PB-6 and a Nikkor lens to make duplicate slides. Cropping of the original slide is possible.

Focusing Stage PG-2
Simplifies close-up focusing when using a camera or camera plus motor drive mounted on a tripod.

Macro Adapter Ring BR-2A
Enables reverse-mounting of lenses — an inexpensive means of obtaining a relatively high reproduction ratio. The BR-2A also increases the working distance for normal or wideangle lenses.
Compatible with lenses that have a 52mm front attachment size.

Macro Adapter Ring BR-5
Needed when using the BR-2A with lenses that have a 62mm front attachment size.

Adapter Ring BR-3
A handy adapter that converts the bayonet mount of reverse mounted lenses to the 52mm thread used for filters and hoods.

Slide Copying Adapter ES-1
Attached to the AF Micro-Nikkor 60mm f/2.8D lens with the BR-5 Ring or the Micro-Nikkor 55mm f/2.8 lens, this adapter enables duplication of 35mm film.

Macro Copy Stand PB-6M
Attaches to the end of the PB-6 to convert it to a miniature copy stand or specimen stage.

Cable Releases
The AR-4 and AR-7 Double Cable Release and the AR-10 Cable Release provide the PB-6 with automatic diaphragm control, even for a lens in the reversed position.

Close-up Attachment Lenses

Used singly or in combination, these lenses provide an easy way to increase magnification. Even when attached, you can use automatic exposure control and TTL metering. All lenses are treated with Nikon Integrated Coating to improve contrast and reduce flare. The higher the close-up lens number, the closer you can focus. Numbers 0, 1 and 2 are recommended for lenses with a focal length to 55mm. 3T and 4T work best with lenses from 85mm to 200mm, and 5T and 6T with lenses from 70mm to 210mm. Numbers 3T, 4T, 5T and 6T are two-element achromatic lenses that ensure high image equality. Numbers 5T and 6T have a front attachment size of 62mm; for all other numbers, it is 52mm.

Auto Extension Rings PK and PN

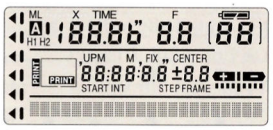
The PK-11A, PK-12 and PK-13 fit between the camera body and lens either single or in combinations, and retain automatic diaphragm and meter coupling with Nikkor lenses. This means you're free to compose, focus and meter at the brightest, fullest aperture position without having to manually stop down the lens before shooting. These rings also allow automatic exposure control.

Camera Backs

The MF-28 can imprint copyright indication. It provides identification for film immediately upon processing and supplements copyright protection. Fully enforceable copyright protection requires additional legal action by the photographer.

for F5

Multi-Control Back MF-28



MF-28 Specifications
Usable film speeds:
ISO 25-3200
Data imprint type:
In frame: 7-segment, 6-digit LCD;
Between frames: 5 × 7 dot matrix 22-digit LCD
Imprint data:
In frame: 1) Year/Month/Day,
2) Month/ Day/Year,
3) Day/ Month/Year,
4) Day/Hour/Minute,
5) Hour/Minute/Second,
6) frame count,
7) 6-digit sequence number (up to 999999),
8) 6-digit fixed number
Between frames: 1) Year/Month/Day/ Hour/Minute/Second,
2) Year/ Month/Day/Hour/up to eight characters,
3) Month/Day/Hour/ Minute/up to eight characters,
4) Day/Hour/Minute/Second/up to eight characters,
5) caption with up to 22 characters,
6) frame count,
7) shutter speed/aperture,
8) compensation degree for Auto Exposure Bracketing,
9) up to 18 characters/4-digit year
Other functions:
Interval Timer, Long Time Exposure, Freeze Focus, Auto Exposure Bracketing, Speedlight charge control, frame counter
Power source:
Two 3V CR2025 lithium batteries
Dimensions (W × H × D):
156 × 58 × 32mm
Weight (w/o batteries): 150g

Data Back MF-27

Day/Month/Year display
Day/Hour/Minute display

MF-27 Specifications
Usable film speeds:
ISO 32-3200
Data imprint type:
7-segment,
6-digit LCD ,
Imprint data:
1) Year/Month/Day,
2)Day/Hour/Minute,
3)Month/Day/Year,
4) Day/Month/Year
Power source:
One 3V CR2025 lithium battery
Dimensions (W × H × D):
156 × 58 × 26mm
Weight (w/o battery):
95g

for F100

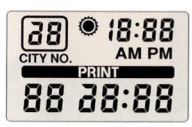
Data Back MF-29

Day/Month/Year display
Day/Hour/Minute display

MF-29 Specifications
Usable film speeds:
ISO 32-3200
Data imprint type:
7-segment, 6-digit LCD
Imprint data:
1) Year/Month/Day,
2) Day/Hour/Minute,
3) Month/ Day/Year,
4) Day/Month/Year
Power source:
One 3V CR2025 lithium battery
Dimensions (W × H × D):
150 × 60 × 29mm
Weight (w/o battery):
81g

for F90X

World Time Data Back MF-25



MF-25 Specifications
Usable film speeds:
ISO 32-3200
Data imprint type:
7-segment, 6-digit LCD
Data display:
7-segment, 12-digit LCD
Imprint data:
1) Year/Month/Day,
2) Day/ Hour/Minute,
3) Month/ Day/Year,
4) Day/Month/Year
Alarm:
Audible alarm continues 60 seconds at preset time
Power source:
Two 3V CR2025 lithium batteries
Dimensions (W × H × D):
140 × 63 × 29mm
Weight (w/o batteries):
80g

for FM3A/FM2

Data Back MF-16

Day/Hour/Minute display
Year/Month/Day display

MF-16 Specifications
Usable film speeds:
ISO 25-400 for color films; 100-400 for B&W
Data imprint type:
7-segment, 6-digit LEDs
Data display:
7-segment, 6-digit LCD
Imprint data:
1) Year/Month/Day,
2) Day/Hour/Minute,
3) frame count (up to 2000)
Alarm:
Audible alarm continues 20 seconds at preset time
Motor drive compatibility:
Possible with MD-12 Motor Drive
Power source:
Two 1.55V SR44 silver-oxide batteries
Dimensions (W × H × D):
142.5 × 53 × 26.5mm
Weight (w/o batteries):
90g

Filters

A wide variety of Nikon Filters are available.

Type	Neutral Color	Skylight	Ultraviolet		Yellow L	Yellow M	Yellow D	Orange	Red	Green L	Green D	Soft		Circular Polarizing				Amber L	Amber D	Blue L	Blue M	Blue D
Filter Designation	NC	L1BC	L37C	L39	Y44	Y48	Y52	O56	R60	X0	X1	No.1	No.2	C-PL	C-PL2	C-PL1S C-PL2S	C-PL1L C-PL2L	A2	A12	B2	B8	B12
Filter Factor																						
Daylight	1	1	1	1	1.5	1.7	2	3.5	8	2	5	1	1	2~4	2~4	2~4	2~4	1.2	2	1.2	1.6	2.2
Tungsten Light	1	1	1	1	1	1.2	1.4	2	5	1.7	3.5	1	1	2~4	2~4	2~4	2~4	1.2	2	1.2	1.6	2.2
Screw-in Type																						
39mm	●	●	●			●	●	●	●									●	●	●	●	●
46mm	●													●								
52mm	●	●	●	●	●	●	●	●	●	●	●	●	●		●			●	●	●	●	●
58mm	●														●							
62mm	●	●	●			●		●	●			●	●		●			●	●	●		●
67mm															●							
72mm	●	●	●			●		●	●			●	●		●			●		●		
77mm	●		●			●		●	●			●			●			●		●		
95mm			●					●	●													
122mm			●			●		●	●													
Slip-in Type																						
39mm																●						
52mm																	●					
Bayonet Type		●				●		●	●									●		●		

L: Light M: Medium D: Deep

Filters for Color and B&W Photography

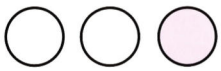
Circular Polarizing Filters

By reducing the light reflected from non-metallic surfaces, polarizing filters allow direct shooting through glass windows and reduce the glare from water surfaces and sunlit trees and grass. They are the only filters that darken the sky in color photography without affecting color balances.

Nikon circular polarizing filters come in a rotating mount to enable different angles for different degrees of polarization, and effects may be seen in the viewfinder as the filter is rotated. They do not interfere with the autofocus or auto exposure operation of the Nikon AF SLRs.

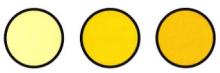
Soft Focus Filters No. 1, No. 2

The Soft Focus Filter No. 1 is good for portraits and gives a "romantic" style haze to images. The No. 2 filter is stronger and produces a fog-like effect in landscapes, or highlights a small subject surrounded by dark space. Both filters come in 52mm, 62mm and 72mm sizes to fit the front thread of a Nikkor lens. For the No. 1 filter, 77mm is also available.



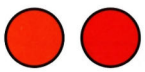
Ultraviolet L37C, L39
Skylight L1BC
While invisible to the naked eye, ultraviolet light can reduce contrast and detail. The colorless UV filters not only produce sharper, nonhazy B&W prints, they correct the blue or violet tints that may occur with color film. The L37C is multilayer coated to further reduce reflection and the L39 is good for B&W prints of mountain or beach scenes. Both may be used as lens protectors. The multilayer coated Skylight L1BC also cuts UV light and is often left on the lens to protect it.

Filters for B&W Photography



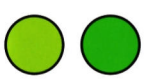
Yellow Y44, Y48, Y52
Yellow filters absorb both the blue and ultraviolet light, so that skies appear darker in a B&W print. They are particularly useful for heightening contrast.

Mild filter Y44 and medium filter Y48 are best suited for portraits and snap shots. Y52 offers the strongest effects and is commonly used for landscape photography.



Orange O56, Red R60
The O56 and R60 offer greater contrast between sky and subjects than Y-series filters. The O56 subtracts green as well as blue and ultraviolet.

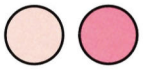
The R60 subtracts all colors of the spectrum except red and is often used with infrared film for special effects.



Green X0, X1
Green filters subtract red and blue and let through green and yellow. Although both X0 and X1 absorb the same amount of blue, the

X0 absorbs less red than the X1, so its effect is milder. The X0 is used for general-purpose shooting, while the X1 is most effective for portraits.

Filters for Color Photography



Amber A2, A12
Because they subtract blue, amber filters correct the bluish colorations that sometimes affects daylight film. The mild A2 filter warms scenes shot on cloudy days or in the shade. The deeper colored A12 is used with tungsten film for outdoor shooting in fair weather.

Blue B2, B8, B12
Blue filters subtract red and thus cool down colorations. B2 is a mild filter used with daylight film to remove the reddish tinge from sunrise or sunset shots. The medium-blue B8 corrects color when clear flashbulbs are used with daylight film. B12 is a color conversion filter which naturalizes the red cast produced by photofloods when shooting indoors with daylight film.

Slip-in Circular Polarizing Filters

Designed for use in combination with telephoto lenses equipped with a slip-in filter holder, these filters reduce glare from nonmetallic surfaces such as glass and water. Simply turn the rotating ring on the holder to find the most effective position. The filters do not affect autofocus or auto exposure features.

Slip-in Circular Polarizing Filters — Table of compatible lenses

	C-PL1S (39mm)	C-PL1L (52mm)	C-PL2S (39mm)	C-PL2L (52mm)	C-PL3L (52mm)
AF Nikkor					
AF-S VR 200mm f/2G IF-ED	—	—	—	—	✓
AF-S 300mm f/2.8D IF-ED II	—	✓	—	—	—
AF-S 400mm f/2.8D IF-ED II	—	✓	—	—	—
AF-S 500mm f/4D IF-ED II	—	✓	—	—	—
AF-S 600mm f/4D IF-ED II	—	✓	—	—	—
AF-I 300mm f/2.8D IF-ED	—	—	✓	—	—
AF-I 400mm f/2.8D IF-ED	—	—	—	✓	—
AF-I 500mm f/4D IF-ED	—	—	✓	—	—
AF-I 600mm f/4D IF-ED	—	—	✓	—	—
AF 300mm f/2.8 IF-ED	✓	—	—	—	—
AF 300mm f/4 IF-ED	✓	—	—	—	—
AI-type Nikkor					
300mm f/2.8 IF-ED	✓	—	—	—	—
400mm f/3.5 IF-ED	✓	—	—	—	—
500mm f/4 P IF-ED	✓	—	—	—	—
600mm f/4 IF-ED	✓	—	—	—	—
600mm f/5.6 IF-ED	✓	—	—	—	—
800mm f/5.6 IF-ED	—	✓	—	—	—
1200-1700mm f/5.6-8 P IF-ED	—	✓	—	—	—

✓ : Compatible —: Incompatible

Neutral Color NC Filters

Available in attachment sizes 39mm, 46mm, 52mm, 58mm, 62mm, 72mm and 77mm, these neutral-color filters serve as lens protectors. They do not affect color balance. In addition, multilayer coating prevents light reflection inside the glass, thus improving color rendition.

Gelatin Filter Holders AF-3, AF-4
Accommodate gelatin or glass filters to thickness of approx. 2mm. The AF-3 is used with 3-inch square gelatin filters and Nikkor lenses having an attachment size of 52/62/67/72/77mm. The AF-4 is used with 4-inch square gelatin filters and Nikkor lenses having an attachment size of 52/62/67/72/77/82/95mm. Nikon also offers two dedicated hood options — the HN-36 for the AF-3 and the HN-37 for the AF-4. Several hoods of equal diameter can be stacked, depending on the focal length of the lens in use.

AF-3 AF-4

AF-3 with HN-36 hoods and adapter

Gelatin Filter Holders AF-1, AF-2
These enable standard 75mm gelatin filters to be used with many Nikkor lenses, the AF-1 for 52mm attachment size and the AF-2 for 72mm attachment size.

72-62 Filter Adapter Ring UR-1
This adapter enables a filter with an attachment size of 72mm to be used with any Nikkor lens with an attachment size of 62mm.

AF Nikkor 85mm f/1.4D IF equipped with AF-4 and three HN-37 hoods, attached to a Nikon F6

Lens Cases/Lens Hoods

Lens Cases

These cases keep lenses safe from dust, dampness and shocks.

Cylindrical Case (CL): The handsome black leatherette finish is complemented by soft, plush lining.

Trunk Case (CT): A durable trunk case is supplied with larger lenses including bright super-telephoto lenses.

Soft Pouch (No. 58-62, CL-S1/S2/S3/S4/M1/M2/L1/L2): Accommodates a variety of lenses of different focal lengths.

Lens Hoods

Lens hoods minimize stray light, helping reduce flare and eliminate "ghost" images; they also protect the lens.

Screw-in (HN, HR): Screws onto the front of the lens; metal type available for extra strength; rubber type folds back over the lens when not in use.

Bayonet (HB): Twist-lock mounting for extra security.

Snap-on (HS): Snaps onto the front of the lens with a spring-type retainer ring; the mounting can be conveniently reversed for storage.

Slip-on (HK): Slips over the front of the lens; tightened with knurled screw and retainer ring; used with wide-zoom and ultra-wide lenses.

Lens and Body Caps

To protect the front and rear portions of a lens from dust, fingerprints and scratches, Nikon makes lens caps in hard plastic, metal and leather. Body caps are also available to protect the mirror box and reflex mirror when no lens is mounted on the camera body.

Lens Strap

LN-1

The lens strap LN-1 is easily adjustable for carrying various telephoto lenses, even large, heavy ones, comfortably on a shoulder. Compatible with autofocus lenses: AF-S 300/2.8D, AF-S/AF-I 400/2.8D, AF-S 500/4D and AF-S 600/4D; and manual lenses: 200/2, 400/2.8, 400/3.5, 500/4P, 600/5.6 and 800/5.6.

AF Nikkor	Lens Hood	Lens Case
AF-S DX 12-24/4G IF-ED	HB-23	CL-S2
AF-S DX 17-55/2.8G IF-ED	HB-31	CL-1120
AF-S DX 18-70/3.5-4.5G IF-ED	HB-32	CL-0915
AF DX Fisheye 10.5/2.8G ED	Built-in	CL-0715
AF-S 17-35/2.8D IF-ED	HB-23	CL-S3, CL-76
AF 18-35/3.5-4.5D IF-ED	HB-23	CL-S1, CL-44
AF 24-50/3.3-4.5D	HB-3	CL-S1, CL-17, CL-32S, No.62
AF 24-85/2.8-4D IF	HB-25	CL-S1, CL-17, CL-49
AF-S 24-85/3.5-4.5G IF-ED	HB-28	CL-S2
AF-S VR 24-120/3.5-5.6G IF-ED	HB-25	CL-S2
AF-S 28-70/2.8D IF-ED	HB-19	CL-S4, CL-74
AF 28-80/3.3-5.6G	HB-20	CL-S1, CL-32S, CL-34A, No.62
AF 28-100/3.5-5.6G	HB-27	CL-S2, CL-32s
AF 28-105/3.5-4.5D IF	HB-18	CL-S1, CL-49, No. 62
AF 28-200/3.5-5.6G IF-ED	HB-30	CL-S2
AF 35-70/2.8D	HB-1	CL-S2, CL-33S
AF-S VR 70-200/2.8G IF-ED	HB-29	CL-M2
AF 70-300/4-5.6D ED	HB-15	CL-S4, CL-72
AF 70-300/4-5.6G	HB-26	CL-S4, CL-72
AF 80-200/2.8D ED	HB-7	CL-M2, CL-43A
AF VR 80-400/4.5-5.6D ED	HB-24	CL-M1
AF-S VR 200-400/4G IF-ED	HK-30	CL-L2
AF 14/2.8D ED	Built-in	CL-S2
AF 18/2.8D	HB-8	CL-S1, CL-17, CL-47
AF 20/2.8D	HB-4	CL-S1, CL-30S
AF 24/2.8D	HN-1	CL-S1, CL-30S, CL-34A
AF 28/1.4D	HK-7	CL-S1, CL-44, No.62
AF 28/2.8D	HN-2	CL-S1, CL-30S, CL-34A
AF 35/2D	HN-3	CL-S1, CL-30S, No.62
AF 50/1.4D	HR-2	CL-S1, CL-30S, CL-34A
AF 50/1.8D	HR-2	CL-S1, CL-30S
AF 85/1.4D IF	HN-31	CL-S1, CL-44, No.62
AF 85/1.8D	HN-23	CL-S1, CL-15S, CL-31S, No.62
AF 180/2.8D IF-ED	Built-in	CL-S4, CL-38, CL-72
AF-S VR 200/2G IF-ED	HK-31	CL-L1
AF-S 300/2.8D IF-ED II	HK-26	CT-30S, CL-L1
AF-S 300/4D IF-ED	Built-in	CL-M2
AF-S 400/2.8D IF-ED II	HK-25	CT-402, CL-L2
AF-S 500/4D IF-ED II	HK-24	CT-502, CL-L2
AF-S 600/4D IF-ED II	HK-23	CT-606, CL-L2
AF Fisheye 16/2.8D	Built-in	CL-S1, CL-31S, No.61
AF Micro 60/2.8D	HN-22	CL-S1, CL-32S, No.62
AF Micro 105/2.8D	HS-7	CL-S3, CL-15S
AF Micro 200/4D IF-ED	HN-30	CL-M2, CL-45
AF Micro 70-180/4.5-5.6D ED	HB-14	CL-M1, CL-71
AF DC 105/2D	Built-in	CL-S3, CL-72
AF DC 135/2D	Built-in	CL-S4, CL-72
Zoom		
28-85/3.5-4.5	HK-16	CL-S1, CL-33S, No.62
35-70/3.3-4.5	HN-2	CL-S2, CL-31S, No.62
35-105/3.5-4.5	HK-11	CL-S1, CL-33S
35-200/3.5-4.5	HK-15	CL-S3, CL-13A
70-210/4.5-5.6	HR-1	CL-38
Wideangle		
15/3.5	Built-in	CL-S2, CL-17
18/3.5	HK-9	CL-S1, CL-34A, CL-37, No.62
20/2.8	HK-14	CL-S2, CL-30S
24/2	HK-2	CL-S1, CL-31S, CL-34A
24/2.8	HN-1	CL-S1, CL-30S, CL-34A
28/2	HN-1	CL-S1, CL-31S, CL-32S
28/2.8	HN-2	CL-S1, CL-30S, CL-34A, No.62
35/1.4	HN-3	CL-S1, CL-31S, CL-32S, No.62
35/2	HN-3	CL-S1, CL-31S, CL-32S, No.62
Normal		
45/2.8 P	HN-35	Soft pouch type provided
50/1.2	HS-12/HR-2	CL-S1, CL-31S, CL-34A
50/1.4	HS-9/HR-1	CL-S1, CL-30S
50/1.8	HR-4/HS-11	CL-30S, No.61

Telephoto	Lens Hood	Lens Case
85/1.4	HN-20	CL-S2, CL-34A
105/1.8	Built-in	CL-S1, CL-17, No.62
105/2.5	Built-in	CL-S1, CL-32S, No.62
135/2	Built-in	CL-S2, CL-15S
135/2.8	Built-in	CL-S1, CL-32S, No.62
180/2.8 ED	Built-in	CL-S4, CL-38, CL-72
200/2 IF-ED	Built-in/HE-4	CT-200
300/2.8 IF-ED	Built-in/HE-4	CT-302, No. 59
400/3.5 IF-ED	Built-in	CL-61A, No. 58
500/4 P IF-ED	HK-17	CT-500, No. 59
600/5.6 IF-ED	Built-in/HE-4	CT-603, No. 59
800/5.6 IF-ED	Built-in/HE-3	CT-800
Reflex		
500/8	HN-27	CL-39
1000/11	Built-in	CL-29
Special Purpose		
PC 28/3.5	HN-9	CL-S2, CL-34A, CL-46, No.62
PC Micro 85/2.8D	HB-22	CL-75
Micro 55/2.8	HN-3	CL-S1, CL-31S, CL-32S, CL-33S*, CL-15S*, No. 62
Micro 105/2.8	HS-14	CL-S4, CL-32S, CL-33S, CL-38**, CL-72, No. 62
Micro 200/4 IF	Built-in	CL-71
Teleconverter		
TC-201	–	CL-S1, CL-30S, No.61
TC-301	–	CL-S1, CL-33S, No.62
TC-14A/14B	–	CL-S1, CL-30S, No.61
TC-14E/TC-14E II	–	CL-S1, CL-30S, No.61
TC-17E II	–	CL-0715
TC-20E/TC-20E II	–	CL-S1, CL-31S, No.62
IX-Nikkor (for PRONEA 600i/PRONEA S)		
IX 20-60/3.5-5.6	HN-1	CL-S1, CL-31S
IX 20-60/3.5-5.6 (New)	HN-1	CL-S1, CL-31S
IX 24-70/3.5-5.6	HN-2	CL-S1, CL-31S
IX 30-60/4-5.6	HN-33	CL-30S, CL-S1
IX 60-180/4-5.6	HN-32	CL-S1, CL-32S
IX 60-180/4.5-5.6	HB-16	CL-S1, CL-32S

*With a PK-13 ring **With a PN-11 ring

Lens Hoods for Circular Polarizing Filters	
52mm Circular Polarizing Filter	HN-12 [1]
62mm Circular Polarizing Filter	HN-26 [2]
72mm Circular Polarizing Filter	HN-13 [1]
77mm Circular Polarizing Filter	HN-34 [1, 3]

1. Vignetting occurs with lenses shorter than 35mm.
2. Vignetting occurs with lenses shorter than 135mm.
3. AF-S 28-70mm f/2.8D IF-ED can be used at 50mm or longer zoom setting.

Note: Lens case names represent their types: CL for Cylindrical Cases, CT for Trunk Cases and No. 58-62 and CL-S/M/L for Soft Pouches.

Lens hood names represent their types: HN for Screw-in, HR for Rubber Screw-in, HK for Slip-on, HS for Snap-on, HB for Bayonet, and HE for Extension.

CL-M1 CL-M2 CL-S1 CL-S2 CL-S3 CL-S4 CL-L1 CL-L2

Camera Cases

Made to fit camera and standard lens only or a variety of camera-lens-accessory combinations including telephotos and motor drives, Nikon camera cases not only keep valuable equipment clean, safe and ready to get at, they look good, too. From classic black to stylish custom models, every Nikon case is carefully designed and manufactured to the same precise standards as all Nikon equipment, and will provide long years of service. Four types are available:

Semi-Soft Case: A two-piece design, this case is more pliable and is textured in appearance.

Soft Case: Foldable when not in use, these cases are usually one-piece in design and are more for convenience than protection.

Blimp Case: Foldable, this case is useful to dampen shutter/motor drive noise or to protect the camera/lens from freezing temperatures. Compatible with any Nikon SLR.

Speedcase: With its accessory kit on the outside, the speedcase offers maximum convenience when carrying camera/telephoto lens and small accessories.

For F6

CF-64

For F5

CF-53

CF-54

For F100

CF-57

CF-58

For F90X

CF-47

CF-47D

CF-48A

For F80

CF-59

CF-60

For F75

CF-63

For F70

CF-51

CF-52

For F65

CF-61

For F60

CF-49

CF-50

For F55

CF-62

For FM3A

CF-27S

CF-28S

CF-28A

CF-29S

For FM2

CF-27

CF-28

CF-28A

CF-29

For 35mm SLRs

CS-7

CS-8

CS-9

CS-10

CS-13

CS-19

CS-20

For D100

CF-D100

For D70

CF-D70

| Camera | | Case | AF DX Fisheye 10.5/2.8G ED | AF 14/2.8D ED | AF Fisheye 16/2.8D | AF 18/2.8D | AF 20/2.8D | AF 24/2.8D | AF 28/1.4D | AF 28/2.8D | AF 35/2D | AF 50/1.4D | AF 50/1.8D | AF Micro 60/2.8D | AF Micro 105/2.8D | AF Micro 200/4D IF-ED | AF Micro 70-180/4.5-5.6D ED | AF 85/1.4D IF | AF 85/1.8D | AF DC 105/2D | AF DC 135/2D | AF 180/2.8D IF-ED | AF-S DX 12-24/4G IF-ED | AF-S 17-35/2.8D IF-ED | AF-S DX 17-55/2.8G IF-ED | AF 18-35/3.5-4.5D IF-ED | AF-S DX 18-70/3.5-4.5G IF-ED | AF 24-50/3.3-4.5D | AF-S 24-85/3.5-4.5G IF-ED | AF 24-85/2.8-4D IF | AF-S VR 24-120/3.5-5.6G IF-ED | AF-S 28-70/2.8D IF-ED | AF 28-80/3.3-5.6G | AF 28-100/3.5-5.6G | AF 28-105/3.5-4.5D IF | AF 28-200/3.5-5.6G IF-ED | AF 35-70/2.8D | AF-S VR 70-200/2.8G IF-ED | AF 70-300/4-5.6D ED | AF 70-300/4-5.6G | AF 80-200/2.8D ED | AF VR 80-400/4.5-5.6D ED | 15/3.5 | 18/3.5 | 20/2.8 | 24/2 | 24/2.8 | 28/2 | 28/2.8 | 35/1.4 | 35/2 | 45/2.8P | 50/1.2 | 50/1.4 | 50/1.8 | 85/1.4 | 105/1.8 | 105/2.5 | 135/2 | 135/2.8 | 180/2.8 ED | PC 28/3.5 | PC Micro 85/2.8D | Micro 55/2.8 | Micro 105/2.8 | Micro 200/4 IF | 35-70/3.3-4.5 | 28-85/3.5-4.5 | 35-105/3.5-4.5 | 35-200/3.5-4.5 | 70-210/4.5-5.6 |
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Nikon Film Scanners

Your film's digital bridge to the future

Multi-format Film Scanner
SUPER COOLSCAN 9000 ED

- Multiple film format (120/220, 35mm, etc.)
- 4,000 dpi true optical resolution
- 16-bit A/D, 16-/8-bit output
- Large-diameter SCANNER NIKKOR ED lens
- Rod dispersion LED illumination
- Multi-sample scanning
- Scan Image Enhancer
- Quick AF & Quick Preview
- IEEE1394 interface
- Digital ICE^4 Advanced™ (Digital ICE quad advanced)
- Digital ICE Professional™ for Kodachrome film

35mm/IX240 Film Scanner
SUPER COOLSCAN 5000 ED

- 4,000 dpi true optical resolution
- 16-bit A/D, 16-/8-bit output
- SCANNER NIKKOR ED lens
- Fast 20-second scanning (including image transfer to monitor)
- Multi-sample scanning
- Scan Image Enhancer
- Quick AF & Quick Preview
- High-speed USB 2.0 interface
- Roll film compatible (optional)
- Digital ICE^4 Advanced™ (Digital ICE quad advanced)

35mm/IX240 Film Scanner
COOLSCAN V ED

- 4,000 dpi true optical resolution
- 14-bit A/D, 16-/8-bit output
- SCANNER NIKKOR ED lens
- Gentle-on-film LED illumination
- Fast 38-second scanning (including image transfer to monitor)
- Scan Image Enhancer
- Quick AF & Quick Preview
- Layout-free design
- Easy-to-connect USB interface
- Digital ICE^4 Advanced™ (Digital ICE quad advanced)

Digital ICE^4 Advanced™ is Digital ICE™, Digital ROC™, Digital GEM™ and Digital DEE™.
Digital ICE^4 Advanced™ are technologies developed by Applied Science Fiction.
Digital ICE Professional™ is technology developed by Applied Science Fiction.

Digital Photo Storage Viewer
COOLWALKER MSV-01

Your 30GB portable photo album

- High-quality 30GB hard disk stores up to 10,000* digital images
  * Calculated for 6-megapixel images stored in JPEG FINE format
- High-quality 2.5-inch TFT color monitor
- Easy data transfer between COOLWALKER and CF Card or PC (USB 2.0)*
  * Using CF card type adapter, SD card is also usable
- Simple user interface for intuitive operation
- Compatible with JPEG, TIFF and NEF file
- Slideshow image display
- PictBridge compatible

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